

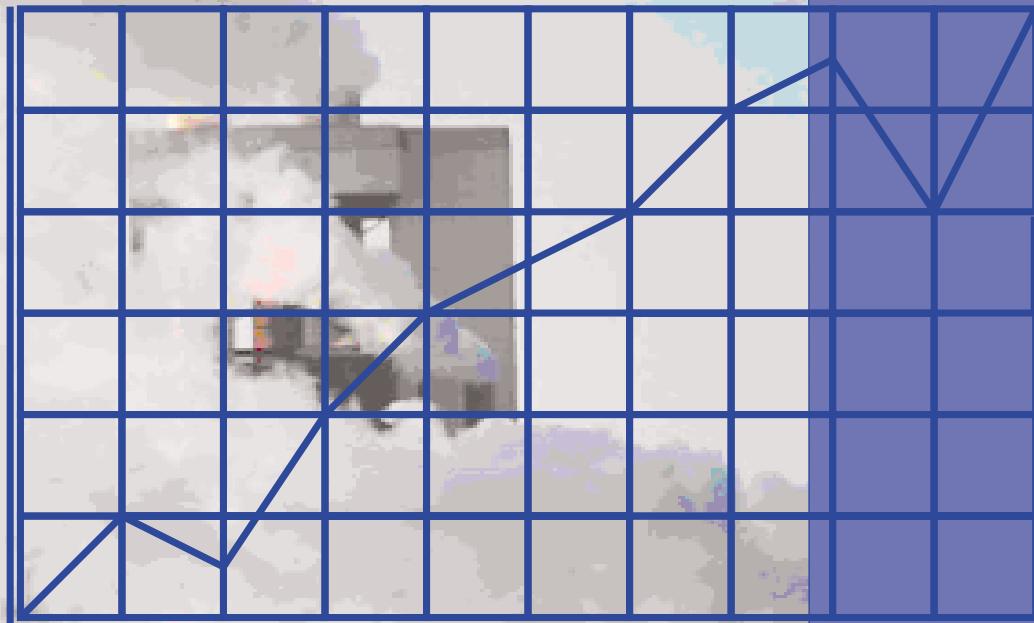
Statistics for Industry Groups and Industries

1998

Issued August 2000

M98(AS)-1

Annual Survey of Manufactures



U.S. CENSUS BUREAU

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U.S. Department of Commerce
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Introduction

SCOPE

The Annual Survey of Manufacturers (ASM) provides sample estimates of statistics for all manufacturing establishments with one or more paid employee. Manufacturing is defined as the mechanical, physical, or chemical transformation of materials or substances into new products. The assembly of components into new products is also considered manufacturing, except when it is appropriately classified as construction.

Establishments in the manufacturing sector are often described as plants, factories, or mills and typically use power-driven machines and materials-handling equipment. Also included in the manufacturing sector are some establishments that make products by hand, like custom tailors and the makers of custom draperies. While manufacturers typically do not sell to the public, some establishments like bakeries and candy stores that make products on the premises may be included.

GENERAL

This report presents manufacturing establishment statistics from the 1998 Annual Survey of Manufactures (ASM). Three reports are issued from this survey.

The report *Statistics for Industry Groups and Industries* presents 1997 and 1998 data at the three-, four-, five-, and six-digit North American Industry Classification System (NAICS) levels. The 1997 data are from the 1997 Economic Census and include revisions made to the data since its initial release. The report also includes a historic table with data for the all-manufacturing level back to 1977. This report includes statistics for employment, payroll, value added by manufacture, cost of materials consumed, value of shipments, detailed capital expenditures, supplemental labor costs, fuels and electric energy used, and inventories by stage of fabrication.

The report *Geographic Area Statistics* presents similar data for each state and the District of Columbia. This report includes statistics at the NAICS three- and four-digit levels for employment, payroll, value added by manufacture, cost of materials consumed, value of shipments, and total capital expenditures. Data for detailed capital expenditures, supplemental labor costs, fuels and electric energy used, and inventories by stage of fabrication are presented at the state level.

The report *Value of Product Shipments* presents shipments data for the 473 six-digit NAICS product groups and approximately 1,500 seven-digit NAICS product classes.

COMPARABILITY WITH HISTORIC DATA

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Another change resulting from the conversion to NAICS is that data for auxiliaries and central administrative offices (CAOs) associated with manufacturers are not presented with the manufacturing data.

It should also be noted that while the Census Bureau published "new capital expenditures" in the past, starting with 1997 it is publishing "total capital expenditures." The historic data presented in this report have been adjusted to be consistent with the new policy.

DISCLOSURE

In accordance with federal law governing census reports (Title 13, United States Code), no data are published that would disclose the operations of an individual company.

The disclosure analysis for the industry statistics files is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. However, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures that can be suppressed even though value of shipments data are published.

AVAILABILITY OF MORE FREQUENT MANUFACTURING DATA

The Census Bureau conducts the ASM in each of the 4 years between the economic census which is collected for years ending in 2 and 7. The economic census – manufacturing is the sample frame from which the ASM is chosen and presents more detailed data than the ASM.

In addition, the Census Bureau conducts a Current Industrial Reports (CIR) program. The CIR publishes product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly.

The Census Bureau also conducts the monthly Manufacturers' Shipments, Inventories, and Orders (M3) program, which publishes detailed statistics for manufacturing industries at the U.S. level.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments canvassed in the ASM was classified in 1 of 473 manufacturing industries in accordance with the industry definitions in the *1997 NAICS Manual*.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector, there are 21 subsectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they primarily originate. In the NAICS system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products, and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits.

In the 1997 Economic Census – Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. In the census years, there were no resistance rules or frozen industries.

In ASM years, establishments included in the ASM sample with certainty weights are reclassified by industry only if the change in the primary activity from the prior

year is significant or if the change has occurred for two successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year. However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

ESTABLISHMENT BASIS OF REPORTING

The ASM is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 1998 data are expressed in 1998 dollars, and 1997 data, in 1997 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with the data:

A Standard error of 100 percent or more.

| | |
|-------|------------------------------------------------------------------------------------------------------|
| D | Withheld to avoid disclosing data of individual companies; data are included in higher level totals. |
| N | Not available or not comparable. |
| S | Withheld because estimates did not meet publication standards. |
| X | Not applicable. |
| r | Revised. |
| nec | Not elsewhere classified. |
| nsk | Not specified by kind. |
| - | Represents zero (page image/print only). |
| NAICS | North American Industry Classification System. |

Table 1. Statistics for All Manufacturing Establishments: 1998 and Earlier Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| Year ¹ | Establishments ² | | All employees ³ | | Production workers | | | Value added by manufacture ⁵ (\$1,000) | Cost of materials (\$1,000) | Value of shipments ⁶ (\$1,000) | Total capital expenditures ⁷ (\$1,000) |
|-------------------|-----------------------------|---------------------------|----------------------------|-------------------|---------------------|---------------|-----------------|------------------------------------------------------|--------------------------------|----------------------------------------------|------------------------------------------------------|
| | Total | With 20 employees or more | Number ⁴ | Payroll (\$1,000) | Number ⁴ | Hours (1,000) | Wages (\$1,000) | | | | |
| 1998 | N | N | 17 056 922 | 590 038 804 | 12 276 393 | 24 764 173 | 351 204 084 | 1 899 238 281 | 2 024 080 791 | 3 914 815 804 | 151 904 983 |
| 1997 | - | - | 16 885 806 | 572 264 844 | 12 126 220 | 24 312 007 | 339 733 009 | 1 831 194 248 | 2 020 476 579 | 3 845 570 277 | 151 734 631 |
| 1996 | N | N | 17 326 300 | 560 518 300 | 12 167 800 | 25 010 500 | 324 495 800 | 1 749 661 900 | 1 975 362 100 | 3 715 428 200 | 146 467 500 |
| 1995 | N | N | 17 419 200 | 545 362 700 | 12 253 100 | 25 072 000 | 317 767 500 | 1 711 442 300 | 1 897 570 700 | 3 594 359 600 | 134 318 100 |
| 1994 | N | N | 17 059 400 | 522 565 700 | 11 947 100 | 24 560 100 | 304 663 000 | 1 605 980 000 | 1 752 735 100 | 3 348 019 200 | 118 664 700 |
| 1993 | N | N | 16 943 500 | 504 363 100 | 11 726 200 | 23 845 100 | 290 293 200 | 1 483 054 100 | 1 647 492 600 | 3 127 620 400 | 108 628 500 |
| 1992 | N | N | 16 948 900 | 494 108 900 | 11 640 900 | 23 563 100 | 281 538 200 | 1 424 699 700 | 1 571 773 500 | 3 004 722 800 | 110 643 800 |
| 1991 | N | N | 16 792 800 | 467 040 300 | 11 652 000 | 23 383 000 | 270 601 000 | 1 341 386 200 | 1 531 221 300 | 2 878 164 800 | 103 152 900 |
| 1990 | N | N | 17 579 400 | 472 622 300 | 12 232 700 | 24 463 300 | 275 208 400 | 1 346 970 100 | 1 574 617 300 | 2 912 228 500 | 106 462 800 |
| 1989 | N | N | 17 794 800 | 463 045 300 | 12 535 500 | 24 933 900 | 273 119 900 | 1 325 433 600 | 1 532 330 000 | 2 840 376 000 | 101 894 300 |
| 1988 | N | N | 17 917 500 | 450 775 700 | 12 438 700 | 24 815 400 | 265 147 100 | 1 269 313 000 | 1 444 500 900 | 2 695 432 300 | 84 706 100 |
| 1987 | N | N | 17 718 000 | 428 480 000 | 12 280 400 | 24 302 700 | 251 449 500 | 1 165 740 800 | 1 319 844 600 | 2 475 939 100 | 85 662 100 |
| 1986 | N | N | 17 086 800 | 402 466 700 | 11 765 400 | 23 178 200 | 236 599 400 | 1 035 437 400 | 1 217 608 600 | 2 260 314 600 | 80 795 100 |
| 1985 | N | N | 17 508 300 | 396 610 500 | 12 174 400 | 23 731 600 | 235 790 800 | 1 000 142 000 | 1 276 009 600 | 2 280 183 800 | 91 244 900 |
| 1984 | N | N | 17 854 900 | 384 921 500 | 12 572 800 | 24 637 100 | 231 783 900 | 983 227 700 | 1 288 413 600 | 2 253 429 300 | 80 659 900 |
| 1983 | N | N | 17 453 100 | 354 232 200 | 12 203 000 | 23 611 600 | 212 416 400 | 882 014 500 | 1 170 237 800 | 2 045 853 300 | 67 479 800 |
| 1982 | N | N | 17 818 100 | 341 406 200 | 12 400 600 | 23 538 300 | 204 787 200 | 824 117 700 | 1 130 142 700 | 1 960 205 800 | 77 045 700 |
| 1981 | N | N | 18 919 800 | 341 319 800 | 13 542 800 | 26 233 100 | 212 200 900 | 837 506 500 | 1 193 969 600 | 2 017 542 500 | 83 767 000 |
| 1980 | N | N | 19 311 400 | 316 494 500 | 13 900 100 | 26 745 700 | 198 164 000 | 773 831 300 | 1 093 567 600 | 1 852 668 300 | 74 624 600 |
| 1979 | N | N | 19 756 500 | 298 529 100 | 14 537 800 | 28 324 300 | 192 881 500 | 747 480 500 | 999 157 500 | 1 727 214 600 | 65 796 600 |
| 1978 | N | N | 19 239 400 | 271 540 900 | 14 228 700 | 27 676 500 | 176 416 800 | 657 412 000 | 877 424 700 | 1 522 937 300 | 58 346 000 |
| 1977 | N | N | 18 515 900 | 242 031 900 | 13 691 000 | 26 686 700 | 157 163 700 | 585 165 600 | 782 417 700 | 1 358 526 400 | 51 907 300 |

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM). Also, in census year 1997, collection and publication of census and subsequent ASM data changed from the Standard Industrial Classification (SIC) basis to the North American Industry Classification System (NAICS). For a discussion of the impact of this change on the data, see introductory text.

²Includes establishments with payroll at any time during year. Beginning in census year 1997, auxiliary establishments associated with manufacturing companies are classified separately. For 1992 and earlier census years, establishment counts for auxiliaries are excluded.

³Figures include employment and payroll data for employees at manufacturing establishments engaged in nonmanufacturing activities (such as distribution and construction). Beginning in 1997, auxiliary establishments associated with manufacturing companies are classified separately. For 1996 and earlier census years, establishment data for auxiliaries are excluded.

⁴Figures represent average number of production workers for payroll period ended nearest the 12th of March, May, August, and November, plus all other employees for payroll period ended nearest the 12th of March.

⁵Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1982 data for value added are not comparable to prior years.

⁶Data represent value of shipments for most industries. For industries 311411, 311412, 311421, 311422, 311711, 311712, 311941, 311999, 312140, 312210, 312221, and 312229 value of production is shown. For industry 336611, value of work done is shown.

⁷Beginning in 1997, data shown are for total capital expenditures (new and used). Prior to 1997, only data for new capital expenditures were shown in this table. 1996 and earlier years data have been adjusted to show total capital expenditures.

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments¹ (\$1,000) | Relative standard error of estimate² (percent) for column— |
|------------|---------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | | | | |
| 31-33 | Manufacturing | 17 056 922 | 590 038 804 | 12 276 393 | 24 764 173 | 351 204 084 | 1 899 238 281 | 2 024 080 791 | 3 914 815 804 | 1 1 |
| | 1998.. | 16 885 806 | 572 264 844 | 12 126 220 | 24 312 007 | 339 733 009 | 1 831 194 228 | 2 020 476 579 | 3 845 570 277 | X X |
| 311 | Food mfg | 1 501 231 | 39 684 355 | 1 143 149 | 2 318 256 | 26 185 002 | 175 406 545 | 256 345 026 | 431 820 065 | 1 1 |
| | 1997.. | 1 470 469 | 38 518 457 | 1 113 898 | 2 236 075 | 25 263 480 | 165 083 397 | 259 395 019 | 424 010 777 | X X |
| 3111 | Animal food mfg | 46 378 | 1 537 297 | 31 244 | 64 872 | 924 165 | 9 271 015 | 18 342 499 | 27 735 369 | 2 2 |
| | 1997.. | 46 870 | 1 496 128 | 30 278 | 62 990 | 851 631 | 8 856 823 | 19 116 084 | 27 935 788 | X X |
| 31111 | Animal food mfg | 46 378 | 1 537 297 | 31 244 | 64 872 | 924 165 | 9 271 015 | 18 342 499 | 27 735 369 | 2 2 |
| | 1997.. | 46 870 | 1 486 128 | 30 278 | 62 990 | 851 631 | 8 856 823 | 19 116 084 | 27 935 788 | X X |
| 311111 | Dog & cat food mfg | 14 246 | 532 681 | 10 950 | 24 274 | 372 761 | 4 586 064 | 4 750 310 | 9 360 753 | 1 1 |
| | 1997.. | 14 106 | 505 730 | 10 693 | 23 702 | 347 473 | 4 359 208 | 4 426 637 | 8 766 978 | X X |
| 311119 | Other animal food mfg | 32 132 | 1 004 617 | 20 294 | 40 598 | 551 405 | 4 684 950 | 13 592 189 | 18 374 616 | 3 4 |
| | 1997.. | 32 764 | 980 398 | 19 585 | 39 288 | 504 158 | 4 497 615 | 14 689 447 | 19 168 810 | X X |
| 3112 | Grain & oilseed milling | 58 405 | 2 342 851 | 43 018 | 95 406 | 1 622 172 | 16 192 012 | 34 250 902 | 50 409 257 | 1 1 |
| | 1997.. | 59 338 | 2 262 311 | 44 210 | 97 455 | 1 647 047 | 15 885 364 | 36 267 233 | 52 143 814 | X X |
| 31121 | Flour milling & malt mfg | 17 067 | 595 043 | 12 348 | 27 634 | 394 802 | 2 759 062 | 7 644 196 | 10 410 236 | 2 2 |
| | 1997.. | 17 972 | 622 191 | 13 260 | 28 607 | 412 988 | 2 706 490 | 8 513 095 | 11 209 927 | X X |
| 311211 | Flour milling | 12 117 | 420 217 | 8 789 | 19 716 | 282 763 | 1 924 180 | 5 560 586 | 7 509 666 | 2 1 |
| | 1997.. | 12 799 | 445 650 | 9 320 | 20 480 | 297 586 | 1 899 643 | 6 138 851 | 8 046 423 | X X |
| 311212 | Rice milling | 3 664 | 121 482 | 2 780 | 6 249 | 81 052 | 605 476 | 1 663 560 | 2 262 274 | 7 4 |
| | 1997.. | 3 832 | 119 756 | 3 006 | 6 327 | 81 161 | 596 999 | 1 812 193 | 2 374 891 | X X |
| 311213 | Malt mfg | 1 286 | 53 344 | 779 | 1 670 | 30 988 | 229 407 | 420 050 | 638 296 | 2 13 |
| | 1997.. | 1 341 | 56 785 | 934 | 1 800 | 34 241 | 209 848 | 562 051 | 788 613 | X X |
| 31122 | Starch & vegetable fats & oils mfg | 26 385 | 1 021 695 | 18 308 | 41 103 | 641 575 | 6 372 041 | 23 970 711 | 30 308 449 | 1 2 |
| | 1997.. | 26 970 | 1 022 051 | 19 142 | 42 829 | 653 109 | 6 622 646 | 25 190 746 | 31 835 054 | X X |
| 311221 | Wet corn milling | 9 326 | 414 429 | 5 991 | 13 902 | 264 245 | 3 007 717 | 4 988 989 | 7 974 544 | 1 1 |
| | 1997.. | 9 217 | 422 533 | 6 372 | 14 726 | 274 677 | 3 071 056 | 5 361 443 | 8 455 172 | X X |
| 311222 | Soybean processing | 6 388 | 238 814 | 4 486 | 10 017 | 142 989 | 1 402 993 | 11 250 793 | 12 696 171 | 1 1 |
| | 1997.. | 6 601 | 229 727 | 4 560 | 10 207 | 140 346 | 1 623 082 | 12 449 318 | 14 036 271 | X X |
| 311223 | Other oilseed processing | 2 444 | 66 167 | 1 742 | 3 959 | 40 541 | 351 000 | 1 445 321 | 1 720 413 | 1 32 |
| | 1997.. | 2 667 | 73 451 | 1 949 | 4 474 | 45 528 | 246 561 | 1 419 419 | 1 720 738 | X X |
| 311225 | Fats & oils refining & blending | 8 227 | 302 285 | 6 089 | 13 226 | 193 799 | 1 610 330 | 6 284 608 | 7 917 321 | 1 1 |
| | 1997.. | 8 485 | 296 340 | 6 261 | 13 422 | 192 558 | 1 681 947 | 5 960 566 | 7 622 873 | X X |
| 31123 | Breakfast cereal mfg | 14 953 | 726 113 | 12 362 | 26 669 | 585 795 | 7 060 910 | 2 635 995 | 9 690 573 | 1 1 |
| | 1997.. | 14 396 | 718 069 | 11 808 | 26 019 | 580 950 | 6 556 228 | 2 563 392 | 9 098 833 | X X |
| 311230 | Breakfast cereal mfg | 14 953 | 726 113 | 12 362 | 26 669 | 585 795 | 7 060 910 | 2 635 995 | 9 690 573 | 1 1 |
| | 1997.. | 14 396 | 718 069 | 11 808 | 26 019 | 580 950 | 6 556 228 | 2 563 392 | 9 098 833 | X X |
| 3113 | Sugar & confectionery product mfg | 84 109 | 2 631 019 | 68 935 | 139 087 | 1 839 265 | 12 936 927 | 12 681 476 | 25 479 673 | 3 1 |
| | 1997.. | 84 906 | 2 561 683 | 67 239 | 136 031 | 1 769 719 | 11 878 538 | 12 380 201 | 24 126 764 | X X |
| 31131 | Sugar mfg | 16 728 | 627 566 | 13 278 | 31 253 | 456 989 | 2 257 503 | 5 317 436 | 7 510 224 | 1 4 |
| | 1997.. | 16 577 | 612 809 | 12 897 | 30 003 | 440 015 | 2 158 601 | 5 327 914 | 7 411 481 | X X |
| 311311 | Sugarcane mills | 4 903 | 159 566 | 3 506 | 8 741 | 105 779 | 733 590 | 880 062 | 1 513 731 | 1 11 |
| | 1997.. | 4 968 | 168 910 | 3 390 | 8 837 | 110 760 | 649 978 | 881 955 | 1 469 792 | X X |
| 311312 | Cane sugar refining | 3 938 | 198 015 | 2 864 | 7 182 | 131 442 | 596 782 | 2 726 916 | 3 321 974 | 1 1 |
| | 1997.. | 3 891 | 191 663 | 2 823 | 6 833 | 126 215 | 540 141 | 2 677 639 | 3 209 186 | X X |
| 311313 | Beet sugar mfg | 7 888 | 269 595 | 6 908 | 15 331 | 219 768 | 927 131 | 1 710 458 | 2 674 518 | 1 3 |
| | 1997.. | 7 718 | 252 236 | 6 684 | 14 333 | 203 040 | 968 482 | 1 768 320 | 2 732 503 | X X |
| 31132 | Chocolate & confectionery mfg from cacao beans | 10 000 | 361 589 | 7 909 | 15 530 | 252 014 | 2 520 035 | 2 149 800 | 4 576 248 | 1 1 |
| | 1997.. | 9 946 | 383 045 | 7 350 | 14 366 | 248 383 | 1 821 177 | 1 925 201 | 3 755 268 | X X |
| 311320 | Chocolate & confectionery mfg from cacao beans | 10 000 | 361 589 | 7 909 | 15 530 | 252 014 | 2 520 035 | 2 149 800 | 4 576 248 | 1 1 |
| | 1997.. | 9 946 | 383 045 | 7 350 | 14 366 | 248 383 | 1 821 177 | 1 925 201 | 3 755 268 | X X |
| 31133 | Confectionery mfg from purchased chocolate | 29 859 | 865 521 | 25 870 | 50 073 | 615 745 | 4 856 856 | 3 136 235 | 8 010 409 | 9 2 |
| | 1997.. | 32 871 | 856 440 | 26 670 | 52 257 | 605 617 | 4 815 479 | 3 126 892 | 7 879 752 | X X |
| 311330 | Confectionery mfg from purchased chocolate | 29 859 | 865 521 | 25 870 | 50 073 | 615 745 | 4 856 856 | 3 136 235 | 8 010 409 | 9 2 |
| | 1997.. | 32 871 | 856 440 | 26 670 | 52 257 | 605 617 | 4 815 479 | 3 126 892 | 7 879 752 | X X |
| 31134 | Nonchocolate confectionery mfg | 27 522 | 776 342 | 21 879 | 42 231 | 514 516 | 3 302 532 | 2 078 005 | 5 382 792 | 1 1 |
| | 1997.. | 25 512 | 709 389 | 20 322 | 39 405 | 475 704 | 3 083 281 | 2 000 194 | 5 080 263 | X X |
| 311340 | Nonchocolate confectionery mfg | 27 522 | 776 342 | 21 879 | 42 231 | 514 516 | 3 302 532 | 2 078 005 | 5 382 792 | 1 1 |
| | 1997.. | 25 512 | 709 389 | 20 322 | 39 405 | 475 704 | 3 083 281 | 2 000 194 | 5 080 263 | X X |
| 3114 | Fruit & vegetable preserving & specialty food mfg | 190 789 | 4 983 609 | 159 356 | 320 810 | 3 634 776 | 24 607 376 | 24 280 518 | 48 939 877 | 1 1 |
| | 1997.. | 192 801 | 4 924 817 | 161 338 | 318 429 | 3 560 286 | 23 503 039 | 23 415 075 | 46 952 890 | X X |
| 31141 | Frozen food mfg | 97 054 | 2 294 056 | 81 831 | 160 034 | 1 682 242 | 10 496 359 | 10 297 640 | 20 768 448 | 1 1 |
| | 1997.. | 94 959 | 2 214 730 | 80 699 | 155 640 | 1 607 813 | 9 935 038 | 9 851 959 | 19 830 545 | X X |
| 311411 | Frozen fruit, juice, & vegetable mfg | 49 668 | 1 106 423 | 41 711 | 82 597 | 832 463 | 4 712 616 | 5 212 219 | 9 905 729 | 2 1 |
| | 1997.. | 46 900 | 1 062 357 | 40 555 | 78 362 | 800 142 | 4 529 533 | 5 054 916 | 9 631 300 | X X |
| 311412 | Frozen specialty food mfg | 47 385 | 1 187 633 | 40 120 | 77 437 | 849 779 | 5 783 742 | 5 085 420 | 10 862 720 | 1 1 |
| | 1997.. | 48 059 | 1 152 373 | 40 144 | 77 278 | 807 671 | 5 405 505 | 4 797 043 | 10 199 245 | X X |
| 31142 | Fruit & vegetable canning, pickling, & drying | 93 735 | 2 689 553 | 77 525 | 160 776 | 1 952 534 | 14 111 018 | 13 982 879 | 28 171 429 | 1 1 |
| | 1997.. | 97 842 | 2 710 087 | 80 639 | 162 789 | 1 952 473 | 13 568 001 | 13 563 116 | 27 122 345 | X X |
| 311421 | Fruit & vegetable canning | 64 156 | 1 777 296 | 53 609 | 110 528 | 1 290 503 | 7 370 527 | 9 374 682 | 16 783 682 | 1 1 |
| | 1997.. | 64 016 | 1 726 293 | 52 884 | 106 367 | 1 241 683 | 7 017 553 | 8 977 673 | 15 978 798 | X X |
| 311422 | Specialty canning | 16 210 | 538 217 | 13 127 | 28 809 | 409 878 | 5 382 851 | 2 930 626 | 8 312 562 | 1 1 |
| | 1997.. | 19 211 | 604 171 | 15 923 | 33 492 | 457 887 | 5 193 277 | 2 875 933 | 8 070 442 | X X |
| 311423 | Dried & dehydrated food mfg | 13 370 | 374 039 | 10 789 | 21 439 | 252 153 | 1 357 640 | 1 677 570 | 3 075 185 | 2 4 |
| | 1997.. | 14 615 | 379 623 | 11 832 | 22 930 | 252 903 | 1 357 171 | 1 709 510 | 3 073 105 | X X |
| 3115 | Dairy product mfg | 133 641 | 4 229 397 | 87 025 | 182 635 | 2 494 263 | 18 843 852 | 44 072 757 | 62 721 020 | 1 2 |
| | 1997.. | 133 127 | 4 183 182 | 85 398 | 180 715 | 2 437 094 | 17 738 935 | 41 335 068 | 59 063 478 | X X |
| 31151 | Dairy product (except frozen) mfg | 114 412 | 3 621 121 | 72 824 | 153 255 | 2 085 290 | 16 744 976 | 40 461 293 | 57 016 091 | 1 2 |
| | 1997.. | 113 188 | 3 571 119 | 71 060 | 150 381 | 2 042 452 | 15 170 108 | 37 997 429 | 53 158 142 | X X |
| 311511 | Fluid milk mfg | 58 540 | 1 942 700 | 30 851 | 66 870 | 964 772 | 6 798 106 | 16 730 921 | 23 518 378 | 1 2 |
| | 1997.. | 58 276 | 1 922 325 | 30 390 | 65 639 | 944 214 | 6 340 450 | 15 891 641 | 22 223 852 | X X |
| 311512 | Creamery butter mfg | | | | | | | | | |

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments¹ (\$1,000) | Relative standard error of estimate² (percent) for column— | | | | | |
|------------|--------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|---|---|---|---|---|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | A | B | C | D | E | F |
| | | | | | | | | | | | | | | | |
| 311 | Food mfg—Con. | | | | | | | | | | | | | | |
| 3116 | Meat product mfg..... | 1998.. | 467 046 | 10 427 411 | 400 197 | 840 096 | 8 008 588 | 32 422 348 | 77 382 981 | 110 022 739 | 1 | 1 | | | |
| | | 1997.. | 463 313 | 9 900 087 | 395 935 | 813 195 | 7 554 239 | 31 067 487 | 82 936 907 | 113 913 088 | X | X | | | |
| 31161 | Animal slaughtering & processing..... | 1998.. | 467 046 | 10 427 411 | 400 197 | 840 096 | 8 008 588 | 32 422 348 | 77 382 981 | 110 022 739 | 1 | 1 | | | |
| | | 1997.. | 463 313 | 9 900 087 | 395 935 | 813 195 | 7 554 239 | 31 067 487 | 82 936 907 | 113 913 088 | X | X | | | |
| 311611 | Animal (except poultry) slaughtering | 1998.. | 139 430 | 3 371 106 | 120 687 | 273 414 | 2 668 740 | 7 756 347 | 42 226 084 | 50 102 027 | 1 | 1 | | | |
| | | 1997.. | 142 421 | 3 257 763 | 121 514 | 266 753 | 2 532 951 | 8 526 565 | 45 998 059 | 54 505 340 | X | X | | | |
| 311612 | Meat processed from carcasses | 1998.. | 94 885 | 2 584 628 | 75 157 | 157 447 | 1 748 828 | 9 214 084 | 15 533 441 | 24 725 864 | 1 | 1 | | | |
| | | 1997.. | 88 425 | 2 326 054 | 70 381 | 142 333 | 1 567 222 | 9 076 056 | 15 969 681 | 25 068 397 | X | X | | | |
| 311613 | Rendering & meat byproduct processing..... | 1998.. | 9 641 | 291 043 | 6 018 | 11 688 | 160 634 | 1 196 778 | 1 217 373 | 2 408 841 | 2 | 4 | | | |
| | | 1997.. | 8 804 | 269 176 | 5 036 | 10 580 | 128 882 | 1 256 798 | 1 325 173 | 2 571 871 | X | X | | | |
| 311615 | Poultry processing | 1998.. | 223 090 | 4 180 635 | 198 334 | 397 547 | 3 430 385 | 14 255 140 | 18 406 084 | 32 786 006 | 1 | 1 | | | |
| | | 1997.. | 223 663 | 4 047 094 | 199 004 | 393 529 | 3 325 184 | 12 208 068 | 19 643 994 | 31 767 480 | X | X | | | |
| 3117 | Seafood product preparation & packaging | 1998.. | 42 068 | 887 132 | 35 052 | 61 342 | 609 423 | 2 915 079 | 4 536 211 | 7 446 334 | 2 | 5 | | | |
| | | 1997.. | 41 338 | 902 830 | 33 944 | 64 204 | 619 775 | 2 546 793 | 4 437 052 | 6 978 786 | X | X | | | |
| 31171 | Seafood product preparation & packaging | 1998.. | 42 068 | 887 132 | 35 052 | 61 342 | 609 423 | 2 915 079 | 4 536 211 | 7 446 334 | 2 | 5 | | | |
| | | 1997.. | 41 338 | 902 830 | 33 944 | 64 204 | 619 775 | 2 546 793 | 4 437 052 | 6 978 786 | X | X | | | |
| 311711 | Seafood canning | 1998.. | 5 553 | 122 176 | 4 441 | 7 773 | 75 622 | 313 021 | 516 907 | 830 740 | 2 | 8 | | | |
| | | 1997.. | 5 371 | 121 870 | 4 253 | 7 645 | 73 888 | 330 603 | 533 089 | 862 118 | X | X | | | |
| 311712 | Fresh & frozen seafood processing | 1998.. | 36 515 | 764 956 | 30 611 | 53 569 | 533 801 | 2 602 058 | 4 019 304 | 6 615 594 | 2 | 5 | | | |
| | | 1997.. | 35 967 | 780 960 | 29 691 | 56 559 | 545 887 | 2 216 190 | 3 903 963 | 6 116 668 | X | X | | | |
| 3118 | Bakeries & tortilla mfg..... | 1998.. | 327 405 | 8 186 086 | 205 716 | 396 100 | 4 460 332 | 29 138 786 | 17 335 039 | 46 453 948 | 1 | 1 | | | |
| | | 1997.. | 299 072 | 7 832 994 | 185 686 | 346 247 | 4 268 330 | 27 206 617 | 16 615 018 | 43 823 699 | | | | | |
| 31181 | Bread & bakery product mfg | 1998.. | 252 255 | 5 983 649 | 147 420 | 282 386 | 2 946 160 | 18 355 706 | 9 918 886 | 28 234 409 | 1 | 1 | | | |
| | | 1997.. | 222 958 | 5 600 035 | 126 933 | 229 130 | 2 754 275 | 16 621 520 | 9 323 612 | 25 951 852 | X | X | | | |
| 311811 | Retail bakeries | 1998.. | 74 784 | 938 196 | 47 216 | 82 812 | 494 037 | 2 101 440 | 1 240 117 | 3 315 452 | 2 | 2 | | | |
| | | 1997.. | 43 658 | 569 005 | 26 881 | 34 327 | 299 269 | 1 228 922 | 717 624 | 1 947 998 | X | X | | | |
| 311812 | Commercial bakeries | 1998.. | 162 862 | 4 660 148 | 88 366 | 175 915 | 2 189 185 | 14 847 868 | 7 550 704 | 22 384 666 | 1 | 1 | | | |
| | | 1997.. | 164 193 | 4 637 526 | 87 710 | 170 197 | 2 176 830 | 14 009 220 | 7 445 414 | 21 459 323 | X | X | | | |
| 311813 | Frozen cakes, pies, & other pastries mfg | 1998.. | 14 609 | 385 305 | 11 838 | 23 658 | 262 937 | 1 406 398 | 1 128 064 | 2 534 291 | 6 | 2 | | | |
| | | 1997.. | 15 107 | 393 504 | 12 342 | 24 606 | 278 176 | 1 383 378 | 1 160 574 | 2 544 531 | X | X | | | |
| 31182 | Cookie, cracker, & pasta mfg | 1998.. | 63 715 | 1 974 469 | 49 501 | 97 113 | 1 363 407 | 10 097 799 | 6 920 782 | 17 036 744 | 1 | 1 | | | |
| | | 1997.. | 64 771 | 2 015 380 | 49 811 | 100 848 | 1 365 181 | 9 961 497 | 6 800 008 | 16 754 970 | X | X | | | |
| 311821 | Cookie & cracker mfg | 1998.. | 42 504 | 1 320 223 | 32 982 | 63 112 | 923 859 | 6 686 010 | 3 584 369 | 10 288 549 | 1 | 1 | | | |
| | | 1997.. | 43 019 | 1 349 409 | 33 121 | 65 522 | 925 982 | 6 394 640 | 3 540 378 | 9 940 690 | X | X | | | |
| 311822 | Flour mixes & dough mfg from purchased flour | 1998.. | 15 470 | 494 558 | 11 946 | 25 126 | 330 422 | 2 429 771 | 2 651 979 | 5 085 324 | 1 | 1 | | | |
| | | 1997.. | 15 689 | 491 511 | 12 024 | 25 958 | 323 370 | 2 521 559 | 2 543 790 | 5 047 752 | X | X | | | |
| 311823 | Dry pasta mfg | 1998.. | 5 741 | 159 688 | 4 573 | 8 875 | 109 127 | 982 018 | 684 434 | 1 662 870 | 1 | 1 | | | |
| | | 1997.. | 6 063 | 174 460 | 4 666 | 9 368 | 115 829 | 1 045 298 | 715 840 | 1 766 528 | X | X | | | |
| 31183 | Tortilla mfg | 1998.. | 11 435 | 227 968 | 8 795 | 16 601 | 150 765 | 685 281 | 495 371 | 1 182 795 | 2 | 1 | | | |
| | | 1997.. | 11 343 | 217 579 | 8 942 | 16 269 | 148 874 | 623 600 | 491 398 | 1 116 877 | X | X | | | |
| 311830 | Tortilla mfg | 1998.. | 11 435 | 227 968 | 8 795 | 16 601 | 150 765 | 685 281 | 495 371 | 1 182 795 | 2 | 1 | | | |
| | | 1997.. | 11 343 | 217 579 | 8 942 | 16 269 | 148 874 | 623 600 | 491 398 | 1 116 877 | X | X | | | |
| 3119 | Other food mfg | 1998.. | 151 390 | 4 459 551 | 112 605 | 217 908 | 2 592 017 | 29 079 151 | 23 462 644 | 52 611 848 | 1 | 1 | | | |
| | | 1997.. | 149 704 | 4 364 425 | 109 870 | 216 809 | 2 555 359 | 26 399 801 | 22 892 381 | 49 072 470 | | | | | |
| 31191 | Snack food mfg | 1998.. | 47 879 | 1 428 861 | 37 218 | 70 452 | 811 102 | 8 578 799 | 6 671 288 | 15 272 615 | 1 | 3 | | | |
| | | 1997.. | 47 471 | 1 388 656 | 35 970 | 73 525 | 821 831 | 7 537 998 | 6 239 720 | 13 710 979 | X | X | | | |
| 311911 | Roasted nuts & peanut butter mfg | 1998.. | 10 723 | 296 536 | 8 236 | 17 472 | 182 081 | 1 760 607 | 2 611 603 | 4 410 202 | 1 | 8 | | | |
| | | 1997.. | 10 493 | 272 890 | 7 862 | 16 762 | 172 492 | 1 588 257 | 2 429 724 | 3 991 180 | X | X | | | |
| 311919 | Other snack food mfg | 1998.. | 37 156 | 1 312 325 | 28 983 | 52 980 | 629 020 | 6 818 192 | 4 056 685 | 10 862 413 | 1 | 3 | | | |
| | | 1997.. | 36 978 | 1 115 766 | 28 108 | 56 763 | 649 339 | 5 949 741 | 3 809 996 | 9 719 799 | X | X | | | |
| 31192 | Coffee & tea mfg | 1998.. | 12 864 | 425 680 | 8 196 | 16 220 | 229 177 | 3 534 234 | 4 169 291 | 7 736 421 | 1 | 1 | | | |
| | | 1997.. | 12 895 | 445 357 | 8 134 | 16 538 | 254 555 | 3 644 653 | 4 401 171 | 7 747 921 | X | X | | | |
| 311920 | Coffee & tea mfg | 1998.. | 12 864 | 425 680 | 8 196 | 16 220 | 229 177 | 3 534 234 | 4 169 291 | 7 736 421 | 1 | 1 | | | |
| | | 1997.. | 12 895 | 445 357 | 8 134 | 16 538 | 254 555 | 3 644 653 | 4 401 171 | 7 747 921 | X | X | | | |
| 31193 | Flavoring syrup & concentrate mfg | 1998.. | 5 854 | 218 162 | 3 233 | 6 409 | 109 204 | 6 186 936 | 1 701 030 | 7 893 887 | 3 | 1 | | | |
| | | 1997.. | 6 243 | 225 770 | 3 348 | 6 839 | 111 627 | 4 945 331 | 1 648 212 | 6 590 816 | X | X | | | |
| 31194 | Seasoning & dressing mfg | 1998.. | 25 748 | 916 661 | 18 338 | 36 890 | 520 149 | 5 123 371 | 5 234 280 | 10 355 806 | 2 | 2 | | | |
| | | 1997.. | 26 145 | 901 252 | 17 923 | 34 974 | 491 893 | 5 120 497 | 5 003 338 | 10 052 063 | X | X | | | |
| 311941 | Mayonnaise, dressing, & other prepared sauce mfg | 1998.. | 13 662 | 434 374 | 10 525 | 21 750 | 286 768 | 2 968 145 | 3 060 039 | 6 030 533 | 3 | 1 | | | |
| | | 1997.. | 13 927 | 443 903 | 10 448 | 20 212 | 286 515 | 2 945 653 | 2 860 124 | 5 810 040 | X | X | | | |
| 311942 | Spice & extract mfg | 1998.. | 12 086 | 482 287 | 7 813 | 15 141 | 233 380 | 2 155 227 | 2 174 241 | 4 325 273 | 2 | 5 | | | |
| | | 1997.. | 12 218 | 457 349 | 7 475 | 14 762 | 205 378 | 2 174 844 | 2 143 214 | 4 242 023 | X | X | | | |
| 31199 | All other food mfg | 1998.. | 59 045 | 1 470 188 | 45 620 | 87 936 | 922 386 | 5 655 811 | 5 686 755 | 11 353 119 | 1 | 2 | | | |
| | | 1997.. | 56 950 | 1 403 390 | 44 495 | 84 933 | 875 453 | 5 151 322 | 5 599 940 | 10 743 691 | X | X | | | |
| 311991 | Perishable prepared food mfg | 1998.. | 21 271 | 490 802 | 15 787 | 30 706 | 287 503 | 1 385 924 | 1 433 383 | 2 814 340 | 3 | 4 | | | |
| | | 1997.. | 20 796 | 463 757 | 15 805 | 29 981 | 273 492 | 1 403 188 | 1 363 324 | 2 752 169 | X | X | | | |
| 311999 | All other miscellaneous food mfg | 1998.. | 37 774 | 979 385 | 29 833 | 57 230 | 634 884 | 4 269 887 | 4 236 37 | | | | | | |

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments ¹ (\$1,000) | Relative standard error of estimate ² (percent) for column— | |
|------------|---------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------------------------------|-----|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | | |
| | | A | B | C | D | E | | | | | |
| 312 | Beverage & tobacco product mfg—Con. | | | | | | | | | | |
| 3121 | Beverage mfg—Con. | | | | | | | | | | |
| 31214 | Distilleries | 6 495 | 255 449 | 4 633 | 9 481 | 160 376 | 2 215 349 | 1 738 238 | 3 892 051 | 1 1 | |
| 312140 | Distilleries | 1998.. | 6 545 | 252 392 | 4 674 | 9 737 | 158 370 | 2 210 538 | 1 713 312 | 3 904 763 | X X |
| 312140 | Distilleries | 1997.. | 6 495 | 255 449 | 4 633 | 9 481 | 160 376 | 2 215 349 | 1 738 238 | 3 892 051 | 1 1 |
| 312140 | Distilleries | 1997.. | 6 545 | 252 392 | 4 674 | 9 737 | 158 370 | 2 210 538 | 1 713 312 | 3 904 763 | X X |
| 3122 | Tobacco mfg..... | 33 970 | 1 539 455 | 24 414 | 47 000 | 972 355 | 31 646 762 | 8 564 997 | 40 201 315 | 1 1 | |
| 3122 | Tobacco mfg..... | 1997.. | 33 635 | 1 596 360 | 24 461 | 47 932 | 1 036 267 | 26 710 415 | 9 427 419 | 36 071 557 | X X |
| 31221 | Tobacco stemming & redrying..... | 1998.. | 5 498 | 130 582 | 3 973 | 8 743 | 70 671 | 733 200 | 2 854 943 | 3 567 304 | 1 X |
| 31221 | Tobacco stemming & redrying..... | 1997.. | 5 085 | 115 795 | 3 698 | 7 685 | 64 504 | 646 447 | 2 750 075 | 3 325 400 | X X |
| 312210 | Tobacco stemming & redrying..... | 1998.. | 5 498 | 130 582 | 3 973 | 8 743 | 70 671 | 733 200 | 2 854 943 | 3 567 304 | 1 1 |
| 312210 | Tobacco stemming & redrying..... | 1997.. | 5 085 | 115 795 | 3 698 | 7 685 | 64 504 | 646 447 | 2 750 075 | 3 325 400 | X X |
| 31222 | Tobacco product mfg | 1998.. | 28 472 | 1 408 873 | 20 441 | 38 257 | 901 684 | 30 913 562 | 5 710 054 | 36 634 011 | 1 1 |
| 31222 | Tobacco product mfg | 1997.. | 28 550 | 1 480 565 | 20 763 | 40 247 | 971 763 | 26 063 968 | 6 677 344 | 32 746 157 | X X |
| 312221 | Cigarette mfg | 1998.. | 20 553 | 1 158 857 | 14 223 | 25 684 | 732 876 | 27 982 514 | 4 805 830 | 32 806 662 | 1 1 |
| 312221 | Cigarette mfg | 1997.. | 21 302 | 1 246 557 | 15 096 | 28 887 | 816 131 | 23 338 692 | 5 901 854 | 29 252 787 | X X |
| 312229 | Other tobacco product mfg | 1998.. | 7 919 | 250 016 | 6 218 | 12 573 | 168 808 | 2 931 048 | 904 224 | 3 827 349 | 2 1 |
| 312229 | Other tobacco product mfg | 1997.. | 7 248 | 234 008 | 5 667 | 11 360 | 155 632 | 2 725 276 | 775 490 | 3 493 370 | X X |
| 313 | Textile mills | 1998.. | 379 775 | 9 898 685 | 321 753 | 670 941 | 7 368 498 | 23 985 771 | 33 869 094 | 57 625 637 | 1 1 |
| 313 | Textile mills | 1997.. | 393 473 | 10 094 773 | 333 601 | 696 754 | 7 467 867 | 23 773 739 | 34 948 789 | 58 859 910 | X X |
| 3131 | Fiber, yarn, & thread mills | 1998.. | 81 277 | 1 905 753 | 72 767 | 154 537 | 1 586 891 | 4 330 783 | 8 552 938 | 12 761 471 | 1 1 |
| 31311 | Fiber, yarn, & thread mills | 1997.. | 83 259 | 1 908 390 | 74 831 | 157 906 | 1 576 045 | 4 222 607 | 8 622 206 | 12 902 907 | X X |
| 313111 | Fiber, yarn, & thread mills | 1998.. | 81 277 | 1 905 753 | 72 767 | 154 537 | 1 586 891 | 4 330 783 | 8 552 938 | 12 761 471 | 1 1 |
| 313111 | Fiber, yarn, & thread mills | 1997.. | 83 259 | 1 908 390 | 74 831 | 157 906 | 1 576 045 | 4 222 607 | 8 622 206 | 12 902 907 | X X |
| 313112 | Yarn spinning mills | 1998.. | 57 820 | 1 333 391 | 51 979 | 111 738 | 1 127 514 | 2 993 319 | 5 072 640 | 7 989 528 | 1 1 |
| 313112 | Yarn spinning mills | 1997.. | 59 272 | 1 349 616 | 53 464 | 113 937 | 1 139 561 | 3 002 848 | 5 176 796 | 8 219 926 | X X |
| 313113 | Thread mills | 1998.. | 4 044 | 88 558 | 3 593 | 7 496 | 68 553 | 161 372 | 448 678 | 613 489 | 1 1 |
| 313113 | Thread mills | 1997.. | 3 731 | 80 360 | 3 323 | 7 059 | 62 002 | 144 561 | 386 572 | 529 432 | X X |
| 3132 | Fabric mills | 1998.. | 211 882 | 5 589 332 | 179 755 | 370 533 | 4 183 030 | 12 877 969 | 16 768 698 | 29 603 087 | 1 1 |
| 31321 | Fabric mills | 1997.. | 217 971 | 5 624 530 | 184 848 | 383 949 | 4 208 436 | 12 600 299 | 17 299 769 | 29 977 910 | X X |
| 313210 | Broadwoven fabric mills | 1998.. | 130 041 | 3 431 725 | 114 063 | 236 407 | 2 728 043 | 7 759 664 | 10 454 409 | 18 155 180 | 1 1 |
| 313210 | Broadwoven fabric mills | 1997.. | 132 895 | 3 435 719 | 115 874 | 242 024 | 2 729 739 | 7 492 174 | 10 645 060 | 18 241 083 | X X |
| 31322 | Narrow fabric mills & schiffli machine embroidery | 1998.. | 19 922 | 444 495 | 16 193 | 33 987 | 305 956 | 929 670 | 731 435 | 1 665 050 | 2 3 |
| 313221 | Narrow fabric mills | 1997.. | 20 514 | 450 316 | 16 960 | 34 838 | 310 161 | 973 947 | 698 790 | 1 672 023 | X X |
| 313222 | Schiffli machine embroidery | 1998.. | 16 155 | 367 543 | 13 108 | 27 774 | 252 463 | 777 113 | 659 066 | 1 435 549 | 2 4 |
| 31323 | Nonwoven fabric mills | 1998.. | 16 584 | 371 752 | 13 662 | 28 218 | 254 283 | 798 445 | 611 786 | 1 409 665 | X X |
| 31323 | Nonwoven fabric mills | 1997.. | 19 922 | 444 495 | 16 193 | 33 987 | 305 956 | 929 670 | 731 435 | 1 665 050 | 2 3 |
| 313230 | Nonwoven fabric mills | 1998.. | 20 579 | 714 033 | 14 942 | 31 094 | 444 437 | 1 925 377 | 2 466 914 | 4 394 388 | 1 1 |
| 313230 | Nonwoven fabric mills | 1997.. | 21 014 | 689 402 | 15 742 | 32 978 | 425 912 | 1 744 447 | 2 636 017 | 4 349 721 | X X |
| 31324 | Knit fabric mills | 1998.. | 41 341 | 999 079 | 34 558 | 69 045 | 704 593 | 2 263 257 | 3 115 940 | 5 388 469 | 1 1 |
| 31324 | Knit fabric mills | 1997.. | 43 548 | 1 049 093 | 36 272 | 74 109 | 742 624 | 2 389 731 | 3 319 902 | 5 715 083 | X X |
| 313241 | Weft knit fabric mills | 1998.. | 24 446 | 576 693 | 20 426 | 40 590 | 404 450 | 1 133 971 | 1 825 449 | 2 966 479 | 1 3 |
| 313241 | Weft knit fabric mills | 1997.. | 24 903 | 578 598 | 20 765 | 42 291 | 409 853 | 1 149 185 | 1 936 289 | 3 089 010 | X X |
| 313249 | Other knit fabric & lace mills | 1998.. | 16 895 | 422 386 | 14 132 | 28 456 | 300 143 | 1 129 287 | 1 290 491 | 2 421 991 | 1 1 |
| 313249 | Other knit fabric & lace mills | 1997.. | 18 645 | 470 495 | 15 507 | 31 818 | 332 771 | 1 240 546 | 1 383 613 | 2 626 073 | X X |
| 3133 | Textile & fabric finishing & fabric coating mills | 1998.. | 86 616 | 2 403 600 | 69 231 | 145 871 | 1 598 577 | 6 777 019 | 8 547 459 | 15 261 079 | 3 3 |
| 31331 | Textile & fabric finishing mills | 1997.. | 92 243 | 2 561 853 | 73 922 | 154 899 | 1 683 386 | 6 950 833 | 9 026 814 | 15 979 093 | X X |
| 313311 | Broadwoven fabric finishing mills | 1998.. | 75 175 | 2 004 459 | 60 765 | 128 210 | 1 349 985 | 5 782 834 | 7 155 162 | 12 867 196 | 3 4 |
| 313311 | Broadwoven fabric finishing mills | 1997.. | 80 651 | 2 174 274 | 65 626 | 137 982 | 1 458 656 | 6 034 070 | 7 682 573 | 13 719 747 | X X |
| 313312 | Textile & fabric finishing mills | 1998.. | 48 190 | 1 310 699 | 38 389 | 81 634 | 883 823 | 3 899 301 | 5 090 397 | 8 913 915 | 5 6 |
| 313312 | Textile & fabric finishing mills | 1997.. | 51 174 | 1 424 561 | 40 774 | 86 152 | 948 282 | 4 076 702 | 5 233 160 | 9 331 870 | X X |
| 31332 | Fabric coating mills | 1998.. | 26 985 | 693 760 | 22 376 | 46 576 | 466 161 | 1 883 532 | 2 064 764 | 3 953 281 | 2 3 |
| 31332 | Fabric coating mills | 1997.. | 29 477 | 749 713 | 24 852 | 51 830 | 510 374 | 1 957 368 | 2 449 413 | 4 387 877 | X X |
| 313320 | Fabric coating mills | 1998.. | 11 441 | 399 141 | 8 466 | 17 661 | 248 593 | 994 186 | 1 392 297 | 2 393 883 | 3 5 |
| 313320 | Fabric coating mills | 1997.. | 11 592 | 387 579 | 8 296 | 16 917 | 224 730 | 916 763 | 1 344 241 | 2 259 346 | X X |
| 313320 | Fabric coating mills | 1997.. | 11 441 | 399 141 | 8 466 | 17 661 | 248 593 | 994 186 | 1 392 297 | 2 393 883 | 3 5 |
| 313320 | Fabric coating mills | 1997.. | 11 592 | 387 579 | 8 296 | 16 917 | 224 730 | 916 763 | 1 344 241 | 2 259 346 | X X |
| 314 | Textile product mills | 1998.. | 232 167 | 5 122 666 | 187 961 | 361 928 | 3 468 740 | 13 428 038 | 18 056 280 | 31 456 977 | 1 2 |
| 314 | Textile product mills | 1997.. | 235 489 | 5 098 292 | 188 965 | 368 583 | 3 415 134 | 13 615 386 | 17 596 581 | 30 980 443 | X X |
| 3141 | Textile furnishings mills | 1998.. | 126 749 | 2 809 522 | 104 050 | 203 402 | 1 982 137 | 8 585 296 | 12 304 151 | 20 842 440 | 1 3 |
| 31411 | Carpet & rug mills | 1998.. | 126 911 | 2 769 273 | 103 063 | 208 258 | 1 929 130 | 8 629 554 | 11 699 701 | 20 409 016 | X X |
| 314110 | Carpet & rug mills | 1997.. | 53 027 | 1 364 049 | 42 970 | 87 802 | 977 689 | 4 872 036 | 7 338 833 | 12 154 905 | 1 1 |
| 31412 | Curtain & linen mills | 1998.. | 52 238 | 1 333 603 | 41 122 | 89 790 | 929 126 | 4 542 198 | 7 081 950 | 11 580 654 | X X |
| 31412 | Curtain & linen mills | 1997.. | 52 238 | 1 333 603 | 41 122 | 89 790 | 929 126 | 4 542 198 | 7 081 950 | 11 580 654 | X X |
| 314121 | Curtain & drapery mills | 1998.. | 74 673 | 1 435 670 | 61 941 | 118 468 | 1 000 004 | 4 087 356 | 4 887 751 | 8 828 362 | X X |
| 314121 | Curtain & drapery mills | 1997.. | 27 015 | 498 173 | 20 864 | 38 205 | 303 865 | 1 078 502 | 1 014 446 | 2 093 323 | 3 6 |
| 314129 | Other household textile product mills | 1998.. | 25 508 | 452 819 | 19 859 | 35 112 | 276 089 | 948 218 | 927 598 | 1 863 111 | X X |
| 3149 | Other textile product mills | 1998.. | 46 706 | 947 299 | 40 216 | 77 395 | 700 583 | 2 634 758 | 3 950 872 | 6 594 212 | 2 8 |
| 3149 | Other textile product mills | 1997.. | 49 165 | 982 851 | 42 082 | 83 356 | 723 915 | 3 139 138 | 3 960 153 | 6 965 251 | X X |
| 3149 | Textile bag & canvas mills | 1998.. | 105 418 | 2 313 145 | 83 912 | 158 525 | 1 486 603 | 4 842 742 | 5 752 129 | 10 614 537 | 1 2 |
| 31491 | Textile bag & canvas mills | 1997.. | 108 578 | 2 329 019 | 85 902 | 160 325 | 1 486 004 | 4 985 832 | 5 626 880 | 10 571 427 | X X |
| 314911 | Textile bag mills | 1998.. | 32 736 | 686 316 | 25 865 | 47 146 | 410 292 | 1 309 483 | 1 214 148 | 2 534 467 | 1 3 |
| 314911 | Textile bag mills | 1997.. | 32 853 | 669 375 | 25 955 | 46 217 | 401 234 | 1 309 771 | 1 215 834 | 2 511 871 | X X |
| 314912 | Canvas & related product mills | 1998.. | 14 104 | 253 946 | 11 863 | 21 900 | 160 641 | 498 576 | 469 696 | 967 098 | 2 3 |
| 314912 | | | | | | | | | | | |

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments ¹ (\$1,000) | Relative standard error of estimate ² (percent) for column— |
|------------|-----------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | F | G | H | |
| 314 | Textile product mills—Con. | | | | | | | | | |
| 3149 | Other textile product mills—Con. | | | | | | | | | |
| 31499 | All other textile product mills—Con. | | | | | | | | | |
| 314999 | All other miscellaneous textile product mills | 1998.. | 61 389 | 1 316 979 | 49 177 | 92 539 | 867 290 | 2 814 199 | 3 208 860 | 6 014 289 |
| | | 1997.. | 64 203 | 1 347 086 | 50 859 | 95 509 | 878 490 | 2 911 409 | 3 244 353 | 6 145 225 |
| 315 | Apparel mfg | 1998.. | 661 266 | 12 144 756 | 551 080 | 1 007 542 | 8 475 314 | 32 078 596 | 33 440 648 | 65 529 625 |
| 315 | Apparel mfg | 1997.. | 718 165 | 12 278 242 | 597 444 | 1 070 300 | 8 882 868 | 33 872 393 | 34 934 094 | 68 334 857 |
| 3151 | Apparel knitting mills | 1998.. | 94 052 | 1 886 744 | 83 323 | 163 367 | 1 471 750 | 4 621 817 | 5 253 010 | 9 855 594 |
| 3151 | Apparel knitting mills | 1997.. | 105 580 | 2 042 388 | 93 559 | 180 236 | 1 606 480 | 5 280 822 | 5 594 893 | 10 854 023 |
| 31511 | Hosiery & sock mills | 1998.. | 49 170 | 978 339 | 43 750 | 85 574 | 770 804 | 2 124 100 | 2 276 957 | 4 434 360 |
| 31511 | Hosiery & sock mills | 1997.. | 53 222 | 995 834 | 47 315 | 91 799 | 784 138 | 2 216 894 | 2 383 364 | 4 603 850 |
| 315111 | Sheer hosiery mills | 1998.. | 15 098 | 306 355 | 13 408 | 27 216 | 244 088 | 685 773 | 747 160 | 1 442 777 |
| 315111 | Sheer hosiery mills | 1997.. | 17 579 | 340 090 | 15 690 | 31 165 | 270 937 | 750 213 | 817 542 | 1 582 474 |
| 315119 | Other hosiery & sock mills | 1998.. | 34 073 | 671 983 | 30 341 | 58 358 | 526 717 | 1 438 328 | 1 529 797 | 2 991 583 |
| 315119 | Other hosiery & sock mills | 1997.. | 35 643 | 655 744 | 31 625 | 60 634 | 513 201 | 1 466 681 | 1 565 822 | 3 021 376 |
| 31519 | Other apparel knitting mills | 1998.. | 44 882 | 908 405 | 39 573 | 77 793 | 700 946 | 2 497 716 | 2 976 053 | 5 421 234 |
| 31519 | Other apparel knitting mills | 1997.. | 52 358 | 1 046 554 | 46 244 | 88 437 | 822 342 | 3 063 928 | 3 211 529 | 6 250 173 |
| 315191 | Outerwear knitting mills | 1998.. | 38 216 | 783 122 | 33 796 | 67 152 | 605 393 | 2 052 482 | 2 603 587 | 4 627 928 |
| 315191 | Outerwear knitting mills | 1997.. | 45 417 | 916 152 | 40 277 | 77 162 | 723 414 | 2 685 026 | 2 899 690 | 5 564 139 |
| 315192 | Underwear & nightwear knitting mills | 1998.. | 6 666 | 125 283 | 5 777 | 10 641 | 95 553 | 445 235 | 372 465 | 793 306 |
| 315192 | Underwear & nightwear knitting mills | 1997.. | 6 941 | 130 402 | 5 967 | 11 275 | 98 928 | 378 902 | 311 839 | 686 034 |
| 3152 | Cut & sew apparel mfg | 1998.. | 512 830 | 9 183 123 | 424 325 | 763 810 | 6 328 439 | 24 912 779 | 25 870 406 | 50 817 957 |
| 3152 | Cut & sew apparel mfg | 1997.. | 556 776 | 9 590 440 | 459 650 | 810 667 | 6 600 018 | 26 005 097 | 26 985 177 | 52 540 645 |
| 31521 | Cut & sew apparel contractors | 1998.. | 164 459 | 2 243 991 | 147 884 | 254 541 | 1 873 051 | 3 859 846 | 1 490 800 | 5 353 949 |
| 31521 | Cut & sew apparel contractors | 1997.. | 199 873 | 2 602 151 | 179 173 | 298 661 | 2 154 214 | 4 518 365 | 1 125 718 | 5 595 542 |
| 315211 | Men's & boys' cut & sew apparel contractors | 1998.. | 43 274 | 647 039 | 39 360 | 70 949 | 546 946 | 1 195 039 | 558 977 | 1 748 040 |
| 315211 | Men's & boys' cut & sew apparel contractors | 1997.. | 50 956 | 700 107 | 45 950 | 79 412 | 584 264 | 1 280 629 | 273 091 | 1 547 847 |
| 315212 | Women's, girls', & infants' cut & sew apparel contractors | 1998.. | 121 185 | 1 596 952 | 108 525 | 183 592 | 1 326 105 | 2 664 807 | 931 823 | 3 605 910 |
| 315212 | Women's, girls', & infants' cut & sew apparel contractors | 1997.. | 148 917 | 1 902 044 | 133 223 | 219 249 | 1 569 950 | 3 237 736 | 852 627 | 4 047 695 |
| 31522 | Men's & boys' cut & sew apparel mfg | 1998.. | 166 584 | 2 978 738 | 141 794 | 261 112 | 2 238 668 | 9 605 584 | 9 630 465 | 19 374 942 |
| 31522 | Men's & boys' cut & sew apparel mfg | 1997.. | 174 138 | 3 032 983 | 148 317 | 269 922 | 2 257 450 | 9 706 529 | 10 474 620 | 19 984 108 |
| 315221 | Men's & boys' cut & sew underwear & nightwear mfg | 1998.. | 8 003 | 133 894 | 6 883 | 12 883 | 108 110 | 468 056 | 355 532 | 816 144 |
| 315221 | Men's & boys' cut & sew underwear & nightwear mfg | 1997.. | 9 771 | 162 648 | 8 517 | 15 883 | 133 511 | 815 876 | 603 895 | 1 405 051 |
| 315222 | Men's & boys' cut & sew suit, coat, & overcoat mfg | 1998.. | 21 253 | 439 244 | 17 111 | 33 134 | 309 253 | 1 021 921 | 927 716 | 1 939 619 |
| 315222 | Men's & boys' cut & sew suit, coat, & overcoat mfg | 1997.. | 22 310 | 466 734 | 17 796 | 33 418 | 322 627 | 1 112 131 | 1 023 175 | 2 086 808 |
| 315223 | Men's & boys' cut & sew shirt (exc work shirt) mfg | 1998.. | 43 164 | 796 865 | 35 987 | 66 019 | 566 167 | 2 520 499 | 3 203 058 | 5 729 084 |
| 315223 | Men's & boys' cut & sew shirt (exc work shirt) mfg | 1997.. | 48 389 | 859 168 | 40 649 | 73 376 | 624 203 | 2 483 089 | 3 085 927 | 5 564 079 |
| 315224 | Men's & boys' cut & sew trouser, slack, & jeans mfg | 1998.. | 46 990 | 858 099 | 42 034 | 78 938 | 695 596 | 3 817 633 | 3 337 979 | 7 179 569 |
| 315224 | Men's & boys' cut & sew trouser, slack, & jeans mfg | 1997.. | 45 219 | 775 607 | 40 507 | 74 012 | 624 538 | 3 392 475 | 3 841 987 | 7 152 379 |
| 315225 | Men's & boys' cut & sew work clothing mfg | 1998.. | 22 950 | 336 270 | 19 755 | 33 491 | 257 208 | 837 746 | 794 703 | 1 770 151 |
| 315225 | Men's & boys' cut & sew work clothing mfg | 1997.. | 23 363 | 347 030 | 19 895 | 34 461 | 252 503 | 998 694 | 903 949 | 1 869 132 |
| 315228 | Men's & boys' cut & sew other outerwear mfg | 1998.. | 24 224 | 414 366 | 20 025 | 36 647 | 302 334 | 939 728 | 1 011 477 | 1 940 376 |
| 315228 | Men's & boys' cut & sew other outerwear mfg | 1997.. | 25 086 | 421 796 | 20 953 | 38 772 | 300 068 | 904 264 | 1 015 687 | 1 906 659 |
| 31523 | Women's & girls' cut & sew apparel mfg | 1998.. | 157 456 | 3 495 153 | 115 930 | 215 147 | 1 935 115 | 10 238 574 | 13 614 074 | 23 820 923 |
| 31523 | Women's & girls' cut & sew apparel mfg | 1997.. | 157 507 | 3 488 660 | 112 189 | 205 078 | 1 895 850 | 10 601 665 | 14 335 119 | 24 768 362 |
| 315231 | Women's & girls' cut/sew lingerie & nightwear mfg | 1998.. | 22 223 | 404 722 | 17 206 | 32 454 | 266 476 | 1 639 448 | 1 924 618 | 3 574 165 |
| 315231 | Women's & girls' cut/sew lingerie & nightwear mfg | 1997.. | 24 610 | 423 442 | 19 057 | 36 668 | 278 570 | 1 523 453 | 2 035 778 | 3 647 532 |
| 315232 | Women's & girls' cut & sew blouse & shirt mfg | 1998.. | 29 118 | 704 334 | 20 782 | 35 995 | 346 144 | 1 896 007 | 2 598 088 | 4 428 397 |
| 315232 | Women's & girls' cut & sew blouse & shirt mfg | 1997.. | 26 178 | 553 543 | 19 197 | 32 990 | 301 792 | 1 665 667 | 2 390 277 | 3 991 959 |
| 315233 | Women's & girls' cut & sew dress mfg | 1998.. | 30 743 | 795 641 | 20 738 | 39 638 | 411 127 | 2 004 496 | 2 911 006 | 4 920 825 |
| 315233 | Women's & girls' cut & sew dress mfg | 1997.. | 29 503 | 736 916 | 19 781 | 33 592 | 371 817 | 2 124 907 | 3 142 354 | 5 204 492 |
| 315234 | Women's & girls' cut & sew suit, coat, skirt mfg | 1998.. | 18 646 | 491 198 | 11 828 | 20 507 | 226 640 | 1 375 255 | 2 017 655 | 3 451 579 |
| 315234 | Women's & girls' cut & sew suit, coat, skirt mfg | 1997.. | 20 363 | 530 011 | 12 977 | 23 263 | 247 652 | 1 657 643 | 2 185 715 | 3 764 320 |
| 315239 | Women's & girls' cut & sew other outerwear mfg | 1998.. | 56 726 | 1 099 258 | 45 376 | 86 554 | 684 727 | 3 323 369 | 4 162 707 | 7 445 956 |
| 315239 | Women's & girls' cut & sew other outerwear mfg | 1997.. | 56 853 | 1 244 748 | 42 177 | 78 565 | 696 019 | 3 629 995 | 4 580 995 | 8 160 059 |
| 31529 | Other cut & sew apparel mfg | 1998.. | 24 331 | 465 241 | 18 716 | 33 010 | 281 606 | 1 208 774 | 1 135 066 | 2 268 143 |
| 31529 | Other cut & sew apparel mfg | 1997.. | 25 258 | 466 646 | 19 971 | 37 006 | 292 504 | 1 178 538 | 1 049 720 | 2 192 633 |
| 315291 | Infants' cut & sew apparel mfg | 1998.. | 8 903 | 159 054 | 6 911 | 12 982 | 104 361 | 468 852 | 524 446 | 1 019 464 |
| 315291 | Infants' cut & sew apparel mfg | 1997.. | 9 457 | 152 721 | 7 879 | 15 425 | 112 899 | 487 099 | 457 862 | 945 119 |
| 315292 | Fur & leather apparel mfg | 1998.. | 1 714 | 41 939 | 1 281 | 2 621 | 24 204 | 103 334 | 118 896 | 221 818 |
| 315292 | Fur & leather apparel mfg | 1997.. | 2 136 | 46 487 | 1 613 | 2 990 | 27 592 | 116 620 | 133 309 | 249 030 |
| 315299 | All other cut & sew apparel mfg | 1998.. | 13 713 | 264 248 | 10 524 | 17 408 | 153 041 | 636 589 | 491 724 | 1 026 861 |
| 315299 | All other cut & sew apparel mfg | 1997.. | 13 665 | 267 438 | 10 479 | 18 591 | 152 013 | 574 819 | 458 549 | 998 484 |
| 3159 | Apparel accessories & other apparel mfg | 1998.. | 54 384 | 1 074 889 | 43 432 | 80 365 | 675 125 | 2 544 000 | 2 317 232 | 4 856 074 |
| 3159 | Apparel accessories & other apparel mfg | 1997.. | 55 809 | 1 095 414 | 44 235 | 79 397 | 676 370 | 2 586 474 | 2 354 024 | 4 940 189 |
| 31599 | Apparel accessories & other apparel mfg | 1998.. | 54 384 | 1 074 889 | 43 432 | 80 365 | 675 125 | 2 544 000 | 2 317 232 | 4 856 074 |
| 31599 | Apparel accessories & other apparel mfg | 1997.. | 55 809 | 1 095 414 | 44 235 | 79 397 | 676 370 | 2 586 474 | 2 354 024 | 4 940 189 |
| 315991 | Hat, cap, & millinery mfg | 1998.. | 17 015 | 307 176 | 13 886 | 25 899 | 222 133 | 658 999 | 376 496 | 1 037 334 |
| 315991 | Hat, cap, & millinery mfg | 1997.. | 17 543 | 307 966 | 14 329 | 26 105 | 217 860 | 578 420 | 399 227 | 984 436 |
| 315992 | Glove & mitten mfg | 1998.. | 5 971 | 116 454 | 4 973 | 10 700 | 77 878 | 384 534 | 293 266 | 689 356 |
| 315992 | Glove & mitten mfg | 1997.. | 6 526 | 121 21 | | | | | | |

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments¹ (\$1,000) | Relative standard error of estimate² (percent) for column— | |
|------------|------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|-------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | A | F |
| | | A | B | C | D | E | | | | A | F |
| 316 | Leather & allied product mfg—Con. | | | | | | | | | | |
| 3161 | Leather & hide tanning & finishing | 1998.. | 15 545 | 432 890 | 12 838 | 26 042 | 305 678 | 1 058 268 | 2 297 681 | 3 348 392 | 1 2 |
| | | 1997.. | 15 317 | 423 993 | 12 425 | 25 090 | 303 614 | 1 030 694 | 2 325 541 | 3 366 752 | X X |
| 31611 | Leather & hide tanning & finishing | 1998.. | 15 545 | 432 890 | 12 838 | 26 042 | 305 678 | 1 058 268 | 2 297 681 | 3 348 392 | 1 2 |
| | | 1997.. | 15 317 | 423 993 | 12 425 | 25 090 | 303 614 | 1 030 694 | 2 325 541 | 3 366 752 | X X |
| 316110 | Leather & hide tanning & finishing | 1998.. | 15 545 | 432 890 | 12 838 | 26 042 | 305 678 | 1 058 268 | 2 297 681 | 3 348 392 | 1 2 |
| | | 1997.. | 15 317 | 423 993 | 12 425 | 25 090 | 303 614 | 1 030 694 | 2 325 541 | 3 366 752 | X X |
| 3162 | Footwear mfg | 1998.. | 37 683 | 787 647 | 31 138 | 60 278 | 514 578 | 1 836 157 | 1 934 622 | 3 784 324 | 2 8 |
| | | 1997.. | 42 359 | 837 778 | 35 209 | 67 535 | 550 650 | 2 265 274 | 2 200 635 | 4 431 609 | X X |
| 31621 | Footwear mfg | 1998.. | 37 683 | 787 647 | 31 138 | 60 278 | 514 578 | 1 836 157 | 1 934 622 | 3 784 324 | 2 8 |
| | | 1997.. | 42 359 | 837 778 | 35 209 | 67 535 | 550 650 | 2 265 274 | 2 200 635 | 4 431 609 | X X |
| 316211 | Rubber & plastics footwear mfg | 1998.. | 8 198 | 192 220 | 6 688 | 13 447 | 125 022 | 584 389 | 542 972 | 1 130 220 | 3 3 |
| | | 1997.. | 8 292 | 168 185 | 6 890 | 14 467 | 119 135 | 519 953 | 498 663 | 1 009 838 | X X |
| 316212 | House slipper mfg | 1998.. | 2 246 | 46 786 | 1 810 | 3 771 | 28 183 | 122 363 | 109 455 | 234 684 | 5 3 |
| | | 1997.. | 2 501 | 51 471 | 1 960 | 4 303 | 30 799 | 147 572 | 125 482 | 263 816 | X X |
| 316213 | Men's footwear (except athletic) mfg | 1998.. | 15 073 | 318 261 | 12 240 | 22 902 | 203 789 | 710 999 | 1 002 025 | 1 707 639 | 5 15 |
| | | 1997.. | 17 797 | 378 083 | 14 628 | 26 595 | 244 998 | 1 111 465 | 1 156 344 | 2 240 281 | X X |
| 316214 | Women's footwear (except athletic) mfg | 1998.. | 9 370 | 179 913 | 8 089 | 15 721 | 122 819 | 285 439 | 199 932 | 506 415 | 1 32 |
| | | 1997.. | 10 442 | 183 020 | 8 905 | 16 988 | 114 011 | 373 803 | 322 851 | 703 653 | X X |
| 316219 | Other footwear mfg | 1998.. | 2 796 | 50 467 | 2 311 | 4 437 | 34 764 | 132 967 | 80 237 | 205 366 | 12 14 |
| | | 1997.. | 3 327 | 57 019 | 2 826 | 5 182 | 41 707 | 112 481 | 97 295 | 214 021 | X X |
| 3169 | Other leather & allied product mfg | 1998.. | 27 949 | 586 947 | 21 793 | 43 143 | 349 200 | 1 951 565 | 1 729 797 | 3 183 878 | 1 1 |
| | | 1997.. | 28 752 | 601 651 | 21 946 | 42 579 | 344 513 | 1 801 891 | 1 291 429 | 3 101 110 | X X |
| 31699 | Other leather & allied product mfg | 1998.. | 27 949 | 586 947 | 21 793 | 43 143 | 349 200 | 1 951 565 | 1 729 797 | 3 183 878 | 1 1 |
| 316991 | Luggage mfg | 1998.. | 9 380 | 215 414 | 6 827 | 13 352 | 112 967 | 956 180 | 565 251 | 1 471 281 | 3 1 |
| 316992 | Women's handbag & purse mfg | 1998.. | 3 775 | 83 624 | 2 840 | 5 352 | 47 983 | 233 557 | 127 963 | 361 776 | 4 5 |
| | | 1997.. | 3 783 | 97 341 | 2 859 | 5 699 | 49 937 | 225 468 | 164 032 | 393 514 | X X |
| 316993 | Personal leather good (except women's handbag & purse) mfg | 1998.. | 4 948 | 98 352 | 3 944 | 8 265 | 62 388 | 234 405 | 169 649 | 405 862 | 2 2 |
| | | 1997.. | 4 950 | 92 068 | 3 726 | 7 273 | 54 747 | 192 160 | 144 720 | 338 848 | X X |
| 316999 | All other leather good mfg | 1998.. | 9 846 | 189 557 | 8 183 | 16 174 | 125 861 | 527 423 | 416 933 | 944 959 | 3 2 |
| | | 1997.. | 10 364 | 190 315 | 8 323 | 15 887 | 123 754 | 521 637 | 410 631 | 935 204 | X X |
| 321 | Wood product mfg | 1998.. | 586 390 | 15 308 325 | 491 385 | 991 687 | 11 285 472 | 34 694 379 | 57 310 088 | 92 142 201 | 1 1 |
| | | 1997.. | 573 616 | 14 406 091 | 479 446 | 954 443 | 10 630 295 | 33 718 678 | 55 673 892 | 89 064 074 | X X |
| 3211 | Sawmills & wood preservation | 1998.. | 132 594 | 3 580 154 | 113 388 | 239 242 | 2 812 598 | 8 201 724 | 19 941 562 | 28 376 510 | 1 2 |
| 32111 | Sawmills & wood preservation | 1998.. | 131 016 | 3 480 579 | 121 011 | 230 865 | 2 718 307 | 9 492 835 | 19 834 410 | 29 144 152 | X X |
| 321113 | Sawmills | 1998.. | 120 369 | 3 271 518 | 112 011 | 230 865 | 2 718 307 | 9 492 835 | 19 834 410 | 29 144 152 | X X |
| 321114 | Wood preservation | 1998.. | 119 348 | 3 182 456 | 102 837 | 212 301 | 2 528 493 | 8 532 079 | 16 271 977 | 24 682 631 | X X |
| | | 1997.. | 122 225 | 308 636 | 9 587 | 18 927 | 197 035 | 795 308 | 3 670 029 | 4 517 876 | 3 8 |
| 3212 | Veneer, plywood, & engineered wood product mfg | 1998.. | 114 968 | 3 365 653 | 96 099 | 207 875 | 2 491 931 | 7 876 894 | 12 354 794 | 20 237 754 | 1 1 |
| | | 1997.. | 114 165 | 3 187 249 | 95 124 | 202 784 | 2 373 877 | 7 256 281 | 11 768 503 | 18 958 200 | X X |
| 32121 | Veneer, plywood, & engineered wood product mfg | 1998.. | 114 968 | 3 365 653 | 96 099 | 207 875 | 2 491 931 | 7 876 894 | 12 354 794 | 20 237 754 | 1 1 |
| 321211 | Hardwood veneer & plywood mfg | 1998.. | 21 972 | 558 867 | 19 303 | 39 495 | 415 002 | 1 162 335 | 1 866 680 | 3 005 254 | 1 2 |
| 321212 | Softwood veneer & plywood mfg | 1998.. | 22 225 | 527 527 | 19 400 | 39 759 | 392 381 | 1 126 758 | 1 763 056 | 2 878 567 | X X |
| 321213 | Engineered wood member (except truss) mfg | 1998.. | 5 811 | 173 489 | 4 869 | 10 887 | 132 829 | 560 184 | 1 066 818 | 1 620 870 | 1 2 |
| | | 1997.. | 5 372 | 154 564 | 4 469 | 9 701 | 118 939 | 476 346 | 974 548 | 1 431 123 | X X |
| 321214 | Truss mfg | 1998.. | 34 525 | 191 374 | 26 371 | 55 216 | 557 265 | 1 873 911 | 2 265 281 | 18 958 200 | X X |
| 321219 | Reconstituted wood product mfg | 1998.. | 32 617 | 799 510 | 24 699 | 48 149 | 481 465 | 1 610 011 | 2 066 206 | 3 669 838 | X X |
| | | 1997.. | 24 719 | 809 691 | 20 213 | 44 658 | 604 647 | 2 635 232 | 3 128 624 | 5 768 316 | 1 1 |
| 3219 | Other wood product mfg | 1998.. | 338 827 | 8 362 517 | 281 898 | 544 570 | 5 980 943 | 18 615 762 | 25 013 731 | 43 527 938 | 1 1 |
| | | 1997.. | 328 435 | 7 738 263 | 272 311 | 520 794 | 5 538 111 | 16 969 562 | 24 070 979 | 40 961 722 | X X |
| 32191 | Millwork | 1998.. | 146 134 | 3 723 780 | 121 677 | 237 807 | 2 725 247 | 8 257 806 | 12 017 246 | 20 252 301 | 1 1 |
| 321911 | Wood window & door mfg | 1998.. | 142 426 | 3 483 157 | 118 385 | 231 768 | 2 553 805 | 7 610 489 | 11 805 215 | 19 360 174 | X X |
| 321912 | Cut stock, resawing lumber, & planing | 1998.. | 67 136 | 1 887 687 | 54 532 | 104 277 | 1 344 877 | 4 254 509 | 5 307 507 | 9 557 502 | 1 1 |
| | | 1997.. | 64 650 | 1 729 869 | 52 329 | 103 237 | 1 237 024 | 3 810 453 | 5 061 839 | 8 881 456 | X X |
| 321918 | Other millwork (including flooring) | 1998.. | 39 022 | 911 071 | 32 579 | 65 092 | 675 205 | 1 939 335 | 2 741 187 | 4 675 626 | 1 1 |
| 32192 | Wood container & pallet mfg | 1998.. | 38 036 | 865 334 | 31 686 | 61 272 | 633 917 | 1 837 799 | 2 703 302 | 4 501 858 | X X |
| 321920 | Wood container & pallet mfg | 1998.. | 51 403 | 975 479 | 43 266 | 79 392 | 692 419 | 2 006 979 | 2 503 652 | 4 504 883 | X X |
| 32199 | All other wood product mfg | 1998.. | 139 859 | 3 600 849 | 115 503 | 222 124 | 2 516 875 | 8 225 311 | 10 399 555 | 18 569 153 | 1 1 |
| | | 1997.. | 134 606 | 3 279 627 | 110 660 | 209 634 | 2 291 887 | 7 352 094 | 9 762 112 | 17 096 665 | X X |
| 321991 | Manufactured home (mobile home) mfg | 1998.. | 71 576 | 2 014 339 | 60 545 | 117 150 | 1 427 466 | 4 549 241 | 6 573 723 | 11 103 475 | 2 1 |
| | | 1997.. | 67 847 | 1 781 359 | 57 304 | 108 723 | 1 277 112 | 4 031 043 | 6 121 947 | 10 147 276 | X X |
| 321992 | Prefabricated wood building mfg | 1998.. | 23 423 | 614 151 | 17 518 | 34 798 | 380 865 | 1 451 250 | 1 858 771 | 3 296 264 | 3 3 |
| 321999 | All other miscellaneous wood product mfg | 1998.. | 44 859 | 972 360 | 37 440 | 70 177 | 708 544 | 2 224 821 | 1 967 061 | 4 169 414 | 1 2 |
| | | 1997.. | 43 749 | 915 528 | 36 376 | 67 806 | 664 490 | 2 057 316 | 1 875 231 | 3 919 533 | X X |
| 322 | Paper mfg | 1998.. | 576 114 | 22 656 607 | 441 573 | 935 166 | 15 466 695 | 72 929 239 | 83 596 187 | 156 251 031 | 1 1 |
| | | 1997.. | 576 135 | 22 391 604 | 441 363 | 938 858 | 15 241 335 | 70 360 673 | 81 064 595 | 151 229 557 | X X |
| 3221 | Pulp, paper, & paperboard mills | 1998.. | 193 421 | 9 700 868 | 150 396 | 324 894 | 7 023 772 | 35 189 031 | 36 008 452 | 71 045 761 | 1 1 |
| 32211 | Pulp mills | 1998.. | 200 027 | 9 947 106 | 155 146 | 339 525 | 7 168 917 | 34 513 318 | 36 533 402 | 71 026 491 | X X |
| 322110 | Pulp mills | 1998.. | 9 891 | 524 538 | 7 239 | 16 007 | 356 041 | 1 664 838 | 2 230 893 | 3 942 389 | 1 2 |
| | | 1997.. | 10 247 | 524 213 | 7 527 | 16 165 | 360 860 | 1 785 086 | 2 226 101 | 4 072 965 | X X |

See footnotes at end of table.

6 Industry Statistics

Annual Survey of Manufactures

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments ¹ (\$1,000) | Relative standard error of estimate ² (percent) for column— |
|------------|---------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | | | | |
| 322 | Paper mfg—Con. | | | | | | | | | |
| 3221 | Pulp, paper, & paperboard mills—Con. | | | | | | | | | |
| 32212 | Paper mills | 129 888 | 6 470 243 | 101 908 | 218 755 | 4 742 073 | 23 411 366 | 22 983 849 | 46 213 105 | 1 1 |
| 322121 | 1998.. | 135 356 | 6 759 929 | 105 920 | 230 669 | 4 900 577 | 23 737 046 | 23 257 237 | 46 926 829 | X |
| 322121 | 1997.. | 117 183 | 5 765 217 | 92 136 | 197 622 | 4 227 250 | 20 729 378 | 20 295 658 | 40 826 911 | 1 1 |
| 322122 | Paper (except newsprint) mills | 122 306 | 6 041 365 | 95 875 | 208 825 | 4 376 684 | 21 184 341 | 20 631 178 | 41 731 438 | X X |
| 322122 | 1998.. | 12 705 | 705 026 | 9 772 | 21 133 | 514 822 | 2 681 988 | 2 688 191 | 5 386 194 | 1 2 |
| 32213 | Newsprint mills | 13 050 | 718 564 | 10 045 | 21 844 | 523 893 | 2 552 705 | 2 626 059 | 5 195 391 | X X |
| 32213 | 1997.. | 53 642 | 2 706 086 | 41 249 | 90 132 | 1 925 658 | 10 112 827 | 10 793 710 | 20 890 267 | 1 1 |
| 322130 | Paperboard mills | 53 642 | 2 706 086 | 41 249 | 90 132 | 1 925 658 | 10 112 827 | 10 793 710 | 20 890 267 | 1 1 |
| 322130 | 1997.. | 54 424 | 2 662 964 | 41 699 | 92 691 | 1 907 480 | 8 991 186 | 11 050 064 | 20 026 697 | X X |
| 3222 | Paperboard mills | 54 424 | 2 662 964 | 41 699 | 92 691 | 1 907 480 | 8 991 186 | 11 050 064 | 20 026 697 | X X |
| 3222 | Converted paper product mfg | 382 692 | 12 955 739 | 291 177 | 610 272 | 8 442 923 | 37 740 208 | 47 587 735 | 85 205 270 | 1 1 |
| 32221 | 1998.. | 376 108 | 12 444 498 | 286 217 | 599 333 | 8 072 418 | 35 847 355 | 44 531 193 | 80 203 066 | X X |
| 32221 | 1997.. | 213 453 | 7 308 960 | 162 921 | 341 487 | 4 726 206 | 17 136 077 | 26 686 008 | 43 748 760 | 1 2 |
| 322211 | Paperboard container mfg | 208 541 | 6 980 549 | 159 098 | 334 804 | 4 487 100 | 16 273 184 | 23 957 071 | 40 194 202 | X X |
| 322211 | 1998.. | 129 976 | 4 495 242 | 95 341 | 200 530 | 2 748 036 | 10 272 931 | 18 152 933 | 28 411 161 | 1 1 |
| 322212 | Corrugated & solid fiber box mfg | 124 916 | 4 270 844 | 91 614 | 191 414 | 2 583 395 | 9 648 403 | 15 990 858 | 25 616 903 | X X |
| 322212 | 1997.. | 51 571 | 1 825 818 | 41 239 | 86 669 | 1 257 457 | 4 221 871 | 5 146 072 | 9 397 376 | 2 1 |
| 322213 | Folding paperboard box mfg | 51 046 | 1 765 836 | 40 541 | 88 731 | 1 207 705 | 4 150 133 | 4 862 214 | 9 020 397 | X X |
| 322213 | 1997.. | S | S | S | S | S | S | S | S | 11 S |
| 322214 | Setup paperboard box mfg | 6 194 | 146 095 | 4 894 | 9 508 | 91 745 | 305 517 | 221 065 | 522 643 | X X |
| 322214 | Fiber can, tube, drum, & similar products mfg | 11 261 | 374 719 | 9 392 | 19 710 | 268 884 | 1 009 015 | 1 375 433 | 2 377 381 | 2 X |
| 322214 | 1997.. | 11 461 | 354 514 | 9 451 | 19 223 | 260 782 | 951 174 | 1 338 180 | 2 289 791 | X X |
| 322215 | Nonfolding sanitary food container mfg | 14 851 | 451 284 | 12 759 | 25 749 | 346 269 | 1 319 221 | 1 674 365 | 2 997 199 | 1 10 |
| 322215 | 1997.. | 14 924 | 443 260 | 12 598 | 25 928 | 343 473 | 1 217 957 | 1 544 754 | 2 744 468 | X X |
| 32222 | Paper bag & coated & treated paper mfg | 76 779 | 2 758 838 | 56 810 | 120 217 | 1 752 053 | 8 950 444 | 10 821 229 | 19 765 666 | 1 1 |
| 32222 | 1997.. | 75 697 | 2 652 600 | 55 924 | 120 549 | 1 679 768 | 8 745 004 | 10 750 243 | 19 455 030 | X X |
| 322221 | Coated & laminated packaging paper & plastics film mfg | 5 005 | 176 357 | 3 836 | 7 740 | 114 572 | 545 382 | 908 544 | 1 456 701 | 8 7 |
| 322221 | 1997.. | 5 416 | 184 801 | 4 195 | 9 164 | 124 117 | 544 767 | 960 990 | 1 498 918 | X X |
| 322222 | Coated & laminated paper mfg | 42 994 | 1 656 756 | 29 870 | 62 740 | 988 337 | 6 003 278 | 6 132 317 | 12 125 364 | 1 1 |
| 322222 | 1997.. | 41 771 | 1 559 509 | 28 769 | 61 833 | 922 922 | 5 865 277 | 6 041 634 | 11 897 154 | X X |
| 322223 | Plastics, foil, & coated paper bag mfg | 3 137 | 96 650 | 2 271 | 4 618 | 61 283 | 249 411 | 252 900 | 505 218 | 2 X |
| 322223 | 1997.. | 3 005 | 94 736 | 2 175 | 4 392 | 55 595 | 240 625 | 249 990 | 489 987 | X X |
| 322224 | Uncoated paper & multiwall bag mfg | 17 535 | 497 915 | 14 866 | 31 868 | 372 252 | 1 165 897 | 1 788 405 | 2 960 319 | 2 1 |
| 322224 | 1997.. | 17 244 | 475 935 | 14 566 | 31 169 | 355 211 | 1 153 558 | 1 725 467 | 2 869 395 | X X |
| 322225 | Laminated aluminum foil mfg for flexible packaging uses | 4 828 | 207 621 | 3 477 | 7 687 | 142 257 | 632 563 | 975 726 | 1 606 421 | 1 7 |
| 322225 | 1997.. | 4 967 | 211 497 | 3 742 | 8 458 | 146 373 | 585 978 | 973 158 | 1 546 143 | X X |
| 322226 | Surface-coated paperboard mfg | 3 280 | 123 539 | 2 490 | 5 564 | 73 351 | 353 915 | 763 336 | 1 111 644 | 1 1 |
| 322226 | 1997.. | 3 294 | 126 122 | 2 477 | 5 533 | 75 550 | 354 799 | 799 004 | 1 153 433 | X X |
| 322227 | Stationery product mfg | 48 492 | 1 386 689 | 36 769 | 74 863 | 917 439 | 3 691 226 | 4 242 107 | 7 930 422 | 2 2 |
| 322227 | 1997.. | 47 825 | 1 379 650 | 36 188 | 73 082 | 907 055 | 3 758 880 | 4 149 591 | 7 778 206 | X X |
| 322231 | Die-cut paper & paperboard office supplies mfg | 13 410 | 355 663 | 10 461 | 22 124 | 238 233 | 1 172 005 | 1 321 083 | 2 496 145 | 2 4 |
| 322231 | 1997.. | 12 792 | 345 586 | 10 009 | 20 421 | 229 797 | 1 085 427 | 1 221 317 | 2 274 062 | X X |
| 322232 | Envelope mfg | 26 412 | 811 895 | 19 943 | 40 548 | 547 020 | 1 602 793 | 1 977 177 | 3 576 473 | 1 3 |
| 322232 | 1997.. | 25 867 | 794 390 | 19 534 | 39 910 | 528 592 | 1 736 860 | 1 916 771 | 3 639 443 | X X |
| 322233 | Stationery, tablet, & related product mfg | 8 670 | 219 131 | 6 365 | 12 191 | 132 187 | 916 429 | 943 847 | 1 857 804 | 9 5 |
| 322233 | 1997.. | 9 166 | 239 674 | 6 645 | 12 751 | 148 666 | 936 593 | 1 011 503 | 1 864 701 | X X |
| 322229 | Other converted paper product mfg | 43 969 | 1 501 253 | 34 676 | 73 705 | 1 047 225 | 7 962 460 | 5 838 391 | 13 760 422 | 2 1 |
| 322229 | 1997.. | 44 045 | 1 431 699 | 35 007 | 70 898 | 998 495 | 7 070 287 | 5 674 288 | 12 775 628 | X X |
| 322291 | Sanitary paper product mfg | 20 806 | 814 334 | 16 854 | 36 471 | 610 890 | 5 857 992 | 3 830 504 | 9 623 714 | 1 1 |
| 322291 | 1997.. | 20 191 | 743 100 | 16 511 | 34 352 | 566 946 | 5 089 150 | 3 853 019 | 8 961 481 | X X |
| 322299 | All other converted paper product mfg | 23 163 | 686 919 | 17 822 | 37 234 | 436 335 | 2 104 468 | 2 007 887 | 4 136 708 | 3 3 |
| 322299 | 1997.. | 23 854 | 688 599 | 18 496 | 36 546 | 431 549 | 1 981 137 | 1 811 269 | 3 814 147 | X X |
| 323 | Printing & related support activities | 848 854 | 26 994 982 | 623 039 | 1 217 507 | 17 026 832 | 61 029 001 | 40 306 396 | 101 308 600 | 1 1 |
| 323 | 1997.. | 838 625 | 26 102 047 | 611 413 | 1 170 313 | 16 397 923 | 58 688 532 | 39 358 433 | 97 908 661 | X X |
| 3231 | Printing & related support activities | 848 854 | 26 994 982 | 623 039 | 1 217 507 | 17 026 832 | 61 029 001 | 40 306 396 | 101 308 600 | 1 1 |
| 32311 | Printing | 785 750 | 24 127 152 | 559 488 | 1 091 741 | 15 149 603 | 55 315 800 | 38 786 994 | 97 908 661 | X X |
| 323110 | Commercial lithographic printing | 425 487 | 14 399 805 | 311 876 | 614 108 | 9 129 073 | 31 014 010 | 21 457 104 | 94 074 433 | 1 1 |
| 323111 | Commercial gravure printing | 415 080 | 13 711 203 | 300 860 | 586 495 | 8 633 252 | 29 555 126 | 20 678 471 | 52 439 626 | X X |
| 323111 | 1997.. | 22 615 | 836 583 | 19 737 | 39 796 | 648 415 | 2 157 094 | 1 937 798 | 4 060 707 | 2 1 |
| 323112 | Commercial flexographic printing | 30 443 | 1 056 794 | 20 996 | 42 120 | 586 713 | 2 654 652 | 2 198 712 | 4 846 836 | 1 1 |
| 323112 | 1997.. | 30 600 | 1 033 011 | 20 602 | 42 323 | 565 365 | 2 545 412 | 2 176 857 | 4 698 137 | X X |
| 323113 | Commercial screen printing | 71 024 | 1 715 639 | 51 320 | 95 649 | 967 134 | 3 692 194 | 2 912 063 | 6 631 896 | 1 2 |
| 323114 | Quick printing | 72 614 | 1 732 350 | 53 429 | 95 889 | 986 290 | 3 713 814 | 2 888 815 | 6 601 773 | X X |
| 323115 | Digital printing | 53 663 | 1 317 493 | 37 013 | 67 143 | 800 963 | 2 740 167 | 1 519 726 | 4 263 157 | 1 3 |
| 323116 | Manifold business form printing | 4 498 | 128 719 | 2 978 | 5 750 | 68 363 | 315 051 | 148 352 | 463 198 | 1 7 |
| 323116 | 1997.. | 4 201 | 122 919 | 2 817 | 5 076 | 67 481 | 271 111 | 134 326 | 405 975 | X X |
| 323117 | Book printing | 55 574 | 1 665 490 | 39 338 | 80 520 | 1 089 450 | 5 458 224 | 3 818 151 | 9 363 719 | 2 2 |
| 323117 | 1997.. | 56 431 | 1 692 282 | 39 438 | 76 150 | 1 088 056 | 5 705 496 | 3 928 985 | 9 630 658 | X X |
| 323118 | Blankbook, looseleaf binder, & device mfg | 17 791 | 532 077 | 12 611 | 25 687 | 272 156 | 1 724 371 | 1 236 765 | 2 923 355 | 3 10 |
| 323118 | 1997.. | 17 798 | 509 339 | 12 785 | 26 236 | 262 623 | 1 535 499 | 1 047 622 | 2 574 472 | X X |
| 323119 | Other commercial printing | 35 069 | 922 672 | 24 263 | 45 525 | 521 849 | 2 126 339 | 1 376 614 | 3 474 740 | 2 3 |
| 32312 | Support activities for printing | 83 105 | 2 867 830 | 63 551 | 125 766 | 1 877 229 | 5 713 201 | 1 519 402 | 7 234 167 | 1 2 |
| 323121 | Tradebinding & related work | 31 676 | 814 417 | 26 454 | 52 533 | 580 530 | 1 569 471 | 464 798 | 2 040 046 | 1 1 |
| 323122 | Prepress services | 51 429 | 2 053 413 | 37 097 | 73 234 | 1 296 700 | 4 143 730 | 1 054 604 | 5 194 120 | 2 3 |
| 323122 | 1997.. | 52 640 | 2 024 935 | 37 515 | 72 934 | 1 273 230 | 4 005 397 | 992 259 | 4 998 767 | X X |

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments¹ (\$1,000) | Relative standard error of estimate² (percent) for column— |
|------------|--------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | | | | |
| 324 | Petroleum & coal products mfg | 1998.. | 107 632 | 5 686 197 | 71 407 | 160 987 | 3 503 356 | 30 727 333 | 104 329 184 | 137 065 947 |
| | | 1997.. | 107 811 | 5 551 371 | 71 707 | 161 379 | 3 425 020 | 37 625 988 | 139 550 401 | 177 448 273 |
| 3241 | Petroleum & coal products mfg | 1998.. | 107 632 | 5 686 197 | 71 407 | 160 987 | 3 503 356 | 30 727 333 | 104 329 184 | 137 065 947 |
| | | 1997.. | 107 811 | 5 551 371 | 71 707 | 161 379 | 3 425 020 | 37 625 988 | 139 550 401 | 177 448 273 |
| 32411 | Petroleum refineries | 1998.. | 64 806 | 3 963 664 | 42 117 | 97 788 | 2 460 449 | 22 956 207 | 91 783 326 | 116 659 857 |
| | | 1997.. | 65 448 | 3 884 869 | 42 693 | 99 837 | 2 412 190 | 30 878 456 | 127 555 077 | 158 667 598 |
| 324110 | Petroleum refineries | 1998.. | 64 806 | 3 963 664 | 42 117 | 97 788 | 2 460 449 | 22 956 207 | 91 783 326 | 116 659 857 |
| | | 1997.. | 65 448 | 3 884 869 | 42 693 | 99 837 | 2 412 190 | 30 878 456 | 127 555 077 | 158 667 598 |
| 32412 | Asphalt paving, roofing, & saturated materials mfg | 1998.. | 27 596 | 1 099 538 | 20 179 | 44 254 | 732 514 | 4 496 440 | 7 567 087 | 12 105 669 |
| | | 1997.. | 27 437 | 1 063 946 | 20 176 | 43 430 | 712 198 | 4 017 063 | 6 997 664 | 11 019 301 |
| 324121 | Asphalt paving mixture & block mfg | 1998.. | 14 294 | 576 856 | 10 316 | 21 565 | 388 561 | 2 388 414 | 4 351 474 | 6 755 630 |
| | | 1997.. | 14 082 | 564 619 | 10 219 | 21 491 | 375 451 | 1 984 078 | 3 925 215 | 5 924 720 |
| 324122 | Asphalt shingle & coating materials mfg | 1998.. | 13 302 | 522 682 | 9 863 | 22 689 | 343 954 | 2 108 026 | 3 215 613 | 5 350 039 |
| | | 1997.. | 13 355 | 499 327 | 9 957 | 21 939 | 336 747 | 2 032 985 | 3 072 449 | 5 094 581 |
| 32419 | Other petroleum & coal products mfg | 1998.. | 15 231 | 622 995 | 9 111 | 18 946 | 310 393 | 3 274 687 | 4 978 771 | 8 300 420 |
| | | 1997.. | 14 926 | 602 556 | 8 838 | 18 112 | 300 632 | 4 997 660 | 7 761 374 | 1 X X |
| 324191 | Petroleum lubricating oil & grease mfg | 1998.. | 11 677 | 477 110 | 6 357 | 13 020 | 212 965 | 2 607 112 | 4 096 326 | 6 747 236 |
| | | 1997.. | 11 292 | 449 968 | 5 997 | 11 958 | 192 664 | 2 074 107 | 3 985 943 | 6 088 041 |
| 324199 | All other petroleum & coal products mfg | 1998.. | 3 554 | 145 885 | 2 754 | 5 926 | 97 428 | 667 575 | 882 445 | 1 553 184 |
| | | 1997.. | 3 634 | 152 588 | 2 841 | 6 154 | 107 968 | 656 362 | 1 011 717 | 1 673 333 |
| 325 | Chemical mfg | 1998.. | 898 429 | 41 663 525 | 519 903 | 1 078 120 | 20 036 886 | 236 073 648 | 188 350 763 | 424 152 323 |
| | | 1997.. | 886 271 | 39 984 709 | 514 451 | 1 073 347 | 19 264 989 | 227 273 483 | 193 291 055 | 419 287 213 |
| 3251 | Basic chemical mfg | 1998.. | 201 520 | 10 478 589 | 116 562 | 243 855 | 5 518 283 | 56 198 780 | 53 478 910 | 110 015 033 |
| | | 1997.. | 200 978 | 10 306 972 | 115 020 | 244 552 | 5 427 028 | 53 771 180 | 59 755 772 | 113 510 705 |
| 32511 | Petrochemical mfg | 1998.. | 10 399 | 635 689 | 5 794 | 13 248 | 330 687 | 6 734 274 | 8 900 072 | 15 642 755 |
| | | 1997.. | 10 192 | 620 132 | 5 741 | 12 869 | 326 988 | 8 359 545 | 11 192 888 | 19 468 615 |
| 325110 | Petrochemical mfg | 1998.. | 10 399 | 635 689 | 5 794 | 13 248 | 330 687 | 6 734 274 | 8 900 072 | 15 642 755 |
| | | 1997.. | 10 192 | 620 132 | 5 741 | 12 869 | 326 988 | 8 359 545 | 11 192 888 | 19 468 615 |
| 32512 | Industrial gas mfg | 1998.. | 12 590 | 582 247 | 6 980 | 14 824 | 309 493 | 3 722 635 | 2 070 554 | 5 754 562 |
| | | 1997.. | 12 635 | 579 835 | 6 813 | 14 516 | 296 543 | 3 485 120 | 918 330 | 5 415 828 |
| 325120 | Industrial gas mfg | 1998.. | 12 590 | 582 247 | 6 980 | 14 824 | 309 493 | 3 722 635 | 2 070 554 | 5 754 562 |
| | | 1997.. | 12 635 | 579 835 | 6 813 | 14 516 | 296 543 | 3 485 120 | 918 330 | 5 415 828 |
| 32513 | Dye & pigment mfg | 1998.. | 17 012 | 782 260 | 10 270 | 21 775 | 443 907 | 3 382 133 | 3 062 779 | 6 432 217 |
| | | 1997.. | 17 317 | 782 734 | 10 554 | 22 430 | 452 437 | 3 351 826 | 3 042 031 | 6 432 088 |
| 325131 | Inorganic dye & pigment mfg | 1998.. | 8 531 | 401 664 | 5 581 | 11 974 | 249 283 | 1 981 306 | 1 757 122 | 3 750 272 |
| | | 1997.. | 8 636 | 394 913 | 5 677 | 11 837 | 251 586 | 2 021 578 | 1 713 362 | 3 739 228 |
| 325132 | Synthetic organic dye & pigment mfg | 1998.. | 8 481 | 380 596 | 4 690 | 9 801 | 194 623 | 1 400 826 | 1 305 656 | 2 681 944 |
| | | 1997.. | 8 681 | 387 821 | 4 877 | 10 593 | 200 851 | 1 330 248 | 1 328 669 | 2 692 860 |
| 32518 | Other basic inorganic chemical mfg | 1998.. | 59 989 | 3 059 816 | 33 364 | 64 627 | 1 527 759 | 18 376 175 | 7 913 045 | 26 240 611 |
| | | 1997.. | 60 174 | 2 976 437 | 31 813 | 65 014 | 1 474 509 | 12 746 336 | 7 976 517 | 20 754 515 |
| 325181 | Alkalies & chlorine mfg | 1998.. | 4 899 | 279 018 | 3 377 | 6 915 | 179 906 | 1 443 181 | 991 396 | 2 449 207 |
| | | 1997.. | 4 859 | 272 779 | 3 348 | 7 085 | 175 560 | 1 421 798 | 1 064 748 | 2 465 183 |
| 325182 | Carbon black mfg | 1998.. | 1 732 | 93 012 | 1 140 | 2 764 | 55 156 | 644 003 | 425 439 | 1 078 118 |
| | | 1997.. | 1 769 | 90 694 | 1 123 | 2 733 | 53 892 | 547 537 | 445 282 | 990 391 |
| 325188 | All other basic inorganic chemical mfg | 1998.. | 53 358 | 2 687 786 | 28 847 | 54 947 | 1 292 697 | 16 288 991 | 6 496 209 | 22 713 285 |
| | | 1997.. | 53 546 | 2 612 964 | 27 342 | 55 196 | 1 245 057 | 10 777 001 | 6 466 487 | 17 298 941 |
| 32519 | Other basic organic chemical mfg | 1998.. | 101 529 | 5 418 577 | 60 154 | 129 383 | 2 906 437 | 23 983 563 | 31 532 461 | 55 944 888 |
| | | 1997.. | 100 660 | 5 347 834 | 60 099 | 129 723 | 2 876 551 | 25 828 353 | 35 626 006 | 61 439 659 |
| 325191 | Gum & wood chemical mfg | 1998.. | 2 494 | 94 120 | 1 842 | 4 112 | 62 489 | 463 642 | 384 779 | 846 610 |
| | | 1997.. | 2 267 | 84 353 | 1 708 | 3 785 | 56 532 | 469 827 | 348 617 | 815 201 |
| 325192 | Cyclic crude & intermediate mfg | 1998.. | 8 706 | 474 851 | 5 039 | 11 478 | 267 228 | 2 501 324 | 3 480 227 | 6 039 394 |
| | | 1997.. | 8 641 | 467 132 | 5 153 | 11 442 | 257 924 | 2 807 384 | 4 053 054 | 6 861 138 |
| 325193 | Ethyl alcohol mfg | 1998.. | 1 566 | 61 003 | 1 111 | 2 287 | 35 297 | 339 551 | 868 408 | 1 229 932 |
| | | 1997.. | 1 527 | 59 291 | 1 055 | 2 340 | 38 758 | 229 873 | 1 002 412 | 1 233 614 |
| 325199 | All other basic organic chemical mfg | 1998.. | 88 763 | 4 788 603 | 52 163 | 111 507 | 2 541 423 | 20 679 045 | 26 799 047 | 47 828 952 |
| | | 1997.. | 88 225 | 4 737 058 | 52 183 | 112 156 | 2 523 337 | 22 321 269 | 30 221 923 | 52 529 706 |
| 3252 | Resin, syn rubber, & artificial & syn fibers & filaments mfg | 1998.. | 114 802 | 5 530 805 | 76 928 | 169 380 | 3 341 388 | 28 383 854 | 34 857 069 | 63 333 752 |
| | | 1997.. | 115 660 | 5 397 484 | 78 834 | 172 421 | 3 286 632 | 27 277 655 | 37 345 489 | 64 386 959 |
| 32521 | Resin & synthetic rubber mfg | 1998.. | 73 800 | 3 902 051 | 44 542 | 98 954 | 2 187 855 | 21 624 991 | 28 637 904 | 50 419 113 |
| | | 1997.. | 73 773 | 3 798 443 | 45 872 | 100 221 | 2 163 763 | 20 398 329 | 31 144 751 | 51 377 714 |
| 325211 | Plastics material & resin mfg | 1998.. | 62 919 | 3 306 037 | 37 466 | 83 302 | 1 837 612 | 19 080 025 | 25 864 211 | 45 078 252 |
| | | 1997.. | 61 632 | 3 160 542 | 38 078 | 83 556 | 1 798 060 | 17 625 910 | 27 750 752 | 45 225 887 |
| 32522 | Synthetic rubber mfg | 1998.. | 10 881 | 596 014 | 7 076 | 15 652 | 350 243 | 2 544 966 | 2 773 693 | 5 340 861 |
| | | 1997.. | 12 141 | 627 901 | 7 794 | 16 665 | 365 703 | 2 772 419 | 3 393 999 | 6 151 827 |
| 32522 | Artificial & synthetic fibers & filaments mfg | 1998.. | 41 002 | 1 628 754 | 32 385 | 70 426 | 1 153 532 | 6 758 863 | 6 219 165 | 12 914 639 |
| | | 1997.. | 41 887 | 1 609 041 | 32 962 | 72 200 | 1 122 869 | 6 879 326 | 6 200 738 | 13 009 245 |
| 325221 | Cellulosic organic fiber mfg | 1998.. | 4 055 | 147 082 | 3 174 | 6 187 | 98 602 | 450 085 | 450 857 | 901 999 |
| | | 1997.. | 4 802 | 174 879 | 3 750 | 7 875 | 120 838 | 603 753 | 500 989 | 1 096 983 |
| 325222 | Noncellulosic organic fiber mfg | 1998.. | 36 947 | 1 481 672 | 29 211 | 64 239 | 1 054 930 | 6 308 778 | 5 768 308 | 12 012 640 |
| | | 1997.. | 37 085 | 1 434 162 | 29 212 | 64 325 | 1 002 031 | 6 275 573 | 5 699 749 | 11 912 262 |
| 3253 | Pesticide, fertilizer, & other agricultural chemical mfg | 1998.. | 37 306 | 1 558 660 | 24 332 | 53 192 | 913 995 | 12 384 528 | 11 967 026 | 24 343 200 |
| | | 1997.. | 37 206 | 1 518 839 | 23 827 | 52 075 | 873 174 | 12 587 451 | 11 880 867 | 24 266 513 |
| 32531 | Fertilizer mfg | 1998.. | 23 014 | 912 061 | 15 911 | 34 338 | 584 296 | 5 150 206 | 7 888 561 | 13 071 265 |
| | | 1997.. | 23 212 | 883 219 | 15 717 | 34 886 | 548 746 | 4 909 535 | 8 020 733 | 12 846 263 |
| 325311 | Nitrogenous fertilizer mfg | 1998.. | 5 335 | 301 062 | 3 602 | 8 099 | 188 013 | 1 637 836 | 2 180 168 | 3 801 288 |
| | | 1997.. | 5 811 | 286 132 | 3 701 | 8 133 | 170 626 | 1 814 299 | 2 172 209 | 3 961 254 |
| 325312 | Phosphatic fertilizer mfg | 1998.. | 8 294 | 359 560 | 5 821 | 13 601 | 250 579 | 2 346 995 | 3 230 693 | 5 649 715 |
| | | 1997.. | 8 559 | 360 599 | 5 984 | 14 212 | 243 085 | 2 071 966 | 3 525 008 | 5 557 744 |
| 325314 | Fertilizer (mixing only) mfg | 1998.. | 9 384 | 251 439 | 6 488 | 12 638 | 145 704 | 1 165 376 | 2 477 700 | 3 620 262 |
| | | 1997.. | 8 842 | 236 488 | 6 032 | 12 541 | 135 035 | 1 023 270 | 2 323 516 | 3 |

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments¹ (\$1,000) | Relative standard error of estimate² (percent) for column— | |
|------------|--------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|-----|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | A | F |
| | | A | B | C | D | E | | | | | |
| 325 | Chemical mfg—Con. | | | | | | | | | | |
| 3254 | Pharmaceutical & medicine mfg | 1998.. | 213 882 | 11 246 557 | 103 529 | 208 823 | 4 090 924 | 70 046 404 | 33 333 110 | 102 995 063 | 1 1 |
| | | 1997.. | 205 448 | 10 222 069 | 102 093 | 207 220 | 3 736 967 | 64 678 192 | 29 974 269 | 93 857 690 | X X |
| 32541 | Pharmaceutical & medicine mfg | 1998.. | 213 882 | 11 246 557 | 103 529 | 208 823 | 4 090 924 | 70 046 404 | 33 333 110 | 102 995 063 | 1 1 |
| | | 1997.. | 205 448 | 10 222 069 | 102 093 | 207 220 | 3 736 967 | 64 678 192 | 29 974 269 | 93 857 690 | X X |
| 325411 | Medicinal & botanical mfg | 1998.. | 30 024 | 1 728 584 | 14 550 | 32 859 | 679 590 | 7 209 174 | 5 937 896 | 13 171 761 | 1 1 |
| | | 1997.. | 27 764 | 1 530 029 | 13 505 | 29 216 | 596 030 | 6 297 660 | 5 588 337 | 11 888 455 | X X |
| 325412 | Pharmaceutical preparation mfg | 1998.. | 118 286 | 6 103 613 | 62 192 | 122 642 | 2 379 205 | 52 589 454 | 22 648 009 | 74 768 574 | 1 1 |
| | | 1997.. | 115 286 | 5 591 463 | 62 467 | 125 986 | 2 155 813 | 48 358 235 | 19 788 634 | 67 535 222 | X X |
| 325413 | In-vitro diagnostic substance mfg | 1998.. | 41 129 | 2 307 464 | 14 391 | 28 290 | 608 158 | 6 325 012 | 2 471 947 | 8 956 089 | 2 2 |
| | | 1997.. | 39 099 | 2 080 123 | 13 966 | 27 029 | 592 310 | 6 302 107 | 2 467 698 | 8 758 031 | X X |
| 325414 | Biological product (except diagnostic) mfg | 1998.. | 24 442 | 1 106 897 | 12 395 | 25 032 | 423 971 | 3 922 763 | 2 275 258 | 6 098 638 | 1 1 |
| | | 1997.. | 23 299 | 1 020 454 | 12 155 | 24 989 | 392 814 | 3 720 190 | 2 132 600 | 5 675 982 | X X |
| 3255 | Paint, coating, & adhesive mfg | 1998.. | 76 782 | 2 963 812 | 42 217 | 83 891 | 1 302 748 | 12 674 964 | 14 404 346 | 27 161 474 | 1 4 |
| | | 1997.. | 75 100 | 2 922 234 | 41 186 | 82 250 | 1 267 521 | 12 734 802 | 13 898 105 | 26 585 380 | X X |
| 32551 | Paint & coating mfg | 1998.. | 54 539 | 2 101 317 | 29 064 | 56 478 | 902 990 | 9 328 112 | 10 448 634 | 19 878 273 | 2 5 |
| | | 1997.. | 53 152 | 2 083 746 | 28 366 | 55 574 | 879 604 | 9 323 582 | 9 921 432 | 19 207 122 | X X |
| 325510 | Paint & coating mfg | 1998.. | 54 539 | 2 101 317 | 29 064 | 56 478 | 902 990 | 9 328 112 | 10 448 634 | 19 878 273 | 2 5 |
| | | 1997.. | 53 152 | 2 083 746 | 28 366 | 55 574 | 879 604 | 9 323 582 | 9 921 432 | 19 207 122 | X X |
| 32552 | Adhesive mfg | 1998.. | 22 244 | 862 496 | 13 153 | 27 413 | 399 758 | 3 346 852 | 3 955 712 | 7 283 200 | 1 2 |
| | | 1997.. | 21 948 | 838 488 | 12 820 | 26 676 | 387 917 | 3 411 220 | 3 976 673 | 7 378 258 | X X |
| 325520 | Adhesive mfg | 1998.. | 22 244 | 862 496 | 13 153 | 27 413 | 399 758 | 3 346 852 | 3 955 712 | 7 283 200 | 1 2 |
| | | 1997.. | 21 948 | 838 488 | 12 820 | 26 676 | 387 917 | 3 411 220 | 3 976 673 | 7 378 258 | X X |
| 3256 | Soap, cleaning compound, & toilet preparation mfg | 1998.. | 131 999 | 4 780 342 | 81 259 | 161 041 | 2 329 207 | 37 277 784 | 21 465 403 | 58 461 582 | 1 1 |
| | | 1997.. | 126 948 | 4 585 760 | 78 110 | 155 328 | 2 189 938 | 36 285 296 | 21 354 077 | 57 545 051 | X X |
| 32561 | Soap & cleaning compound mfg | 1998.. | 64 500 | 2 520 104 | 38 405 | 78 449 | 1 240 532 | 20 377 164 | 13 272 694 | 33 681 361 | 2 1 |
| | | 1997.. | 62 614 | 2 458 650 | 37 365 | 77 163 | 1 200 390 | 19 602 071 | 13 582 236 | 33 173 161 | X X |
| 325611 | Soap & other detergent mfg | 1998.. | 30 952 | 1 272 256 | 18 941 | 38 083 | 630 637 | 10 066 744 | 6 932 704 | 17 072 878 | 2 1 |
| | | 1997.. | 31 158 | 1 271 545 | 18 234 | 36 942 | 628 720 | 10 490 110 | 7 364 034 | 17 811 233 | X X |
| 325612 | Polish & other sanitation good mfg | 1998.. | 24 063 | 767 704 | 14 453 | 29 389 | 394 473 | 5 506 928 | 3 303 398 | 8 745 335 | 5 1 |
| | | 1997.. | 21 985 | 724 411 | 14 133 | 28 728 | 360 261 | 5 149 717 | 3 190 254 | 8 369 554 | X X |
| 325613 | Surface active agent mfg | 1998.. | 9 485 | 480 144 | 5 012 | 10 977 | 215 422 | 4 803 492 | 3 036 593 | 7 863 148 | 2 1 |
| | | 1997.. | 9 471 | 462 694 | 4 998 | 11 493 | 211 409 | 3 962 244 | 3 027 948 | 6 992 374 | X X |
| 32562 | Toilet preparation mfg | 1998.. | 67 498 | 2 260 238 | 42 854 | 82 593 | 1 088 675 | 16 900 620 | 8 192 709 | 24 780 221 | 2 1 |
| | | 1997.. | 64 334 | 2 127 110 | 40 745 | 78 165 | 989 548 | 16 683 225 | 7 771 841 | 24 371 890 | X X |
| 325620 | Toilet preparation mfg | 1998.. | 67 498 | 2 260 238 | 42 854 | 82 593 | 1 088 675 | 16 900 620 | 8 192 709 | 24 780 221 | 2 1 |
| | | 1997.. | 64 334 | 2 127 110 | 40 745 | 78 165 | 989 548 | 16 683 225 | 7 771 841 | 24 371 890 | X X |
| 3259 | Other chemical product mfg | 1998.. | 122 138 | 5 104 760 | 75 075 | 157 937 | 2 540 341 | 19 107 334 | 18 844 899 | 37 842 221 | 1 1 |
| | | 1997.. | 124 931 | 5 031 351 | 75 381 | 159 501 | 2 483 729 | 19 938 907 | 19 082 476 | 39 134 915 | X X |
| 32591 | Printing ink mfg | 1998.. | 13 488 | 544 548 | 7 877 | 16 275 | 263 522 | 1 782 163 | 2 574 062 | 4 283 127 | 1 9 |
| | | 1997.. | 13 218 | 510 631 | 7 012 | 14 704 | 244 249 | 1 614 812 | 2 523 267 | 4 109 451 | X X |
| 325910 | Printing ink mfg | 1998.. | 13 488 | 544 548 | 7 877 | 16 275 | 263 522 | 1 782 163 | 2 574 062 | 4 283 127 | 1 9 |
| | | 1997.. | 13 218 | 510 631 | 7 012 | 14 704 | 244 249 | 1 614 812 | 2 523 267 | 4 109 451 | X X |
| 32592 | Explosives mfg | 1998.. | 8 410 | 296 903 | 6 039 | 11 712 | 179 198 | 612 345 | 623 284 | 1 247 881 | 1 6 |
| | | 1997.. | 8 972 | 312 301 | 6 648 | 13 516 | 190 534 | 789 782 | 649 413 | 1 447 274 | X X |
| 32599 | All other chemical product & preparation mfg | 1998.. | 100 240 | 4 263 309 | 61 159 | 129 949 | 2 097 621 | 16 712 826 | 15 647 553 | 32 311 213 | 1 1 |
| | | 1997.. | 102 741 | 4 208 419 | 61 721 | 131 281 | 2 048 946 | 17 534 313 | 15 909 796 | 33 578 190 | X X |
| 325991 | Custom compounding of purchased resin | 1998.. | 27 584 | 993 727 | 18 043 | 37 472 | 532 320 | 3 335 353 | 4 839 412 | 8 156 489 | 3 1 |
| | | 1997.. | 27 776 | 957 095 | 18 356 | 36 385 | 506 381 | 3 043 048 | 4 783 508 | 7 818 015 | X X |
| 325992 | Photographic film, paper, plate, & chemical mfg | 1998.. | 35 578 | 1 779 379 | 19 939 | 46 209 | 819 277 | 6 207 206 | 4 684 463 | 10 924 548 | 1 1 |
| | | 1997.. | 38 935 | 1 828 139 | 21 761 | 51 366 | 852 008 | 7 669 991 | 5 053 351 | 12 895 637 | X X |
| 325998 | All other miscellaneous chemical product & preparation mfg | 1998.. | 37 078 | 1 490 202 | 23 178 | 46 268 | 746 025 | 7 170 267 | 6 123 678 | 13 230 176 | 2 1 |
| | | 1997.. | 36 030 | 1 423 185 | 21 604 | 43 530 | 690 557 | 6 821 274 | 6 622 097 | 12 864 538 | X X |
| 326 | Plastics & rubber products mfg | 1998.. | 1 042 811 | 31 181 806 | 827 309 | 1 660 350 | 20 884 795 | 85 480 901 | 78 574 950 | 164 041 160 | 1 1 |
| | | 1997.. | 1 030 909 | 30 045 415 | 811 109 | 1 618 984 | 19 962 664 | 81 948 468 | 78 589 886 | 160 359 448 | X X |
| 3261 | Plastics product mfg | 1998.. | 836 010 | 24 193 942 | 661 904 | 1 322 374 | 15 873 653 | 66 803 850 | 61 930 588 | 128 693 601 | 1 1 |
| | | 1997.. | 827 169 | 23 232 717 | 648 995 | 1 287 021 | 15 073 457 | 63 815 124 | 61 908 347 | 125 485 473 | X X |
| 32611 | Unsupported plastics film, sheet, & bag mfg | 1998.. | 109 922 | 3 699 247 | 85 326 | 178 421 | 2 462 370 | 11 831 509 | 12 720 534 | 24 519 362 | 1 1 |
| | | 1997.. | 110 657 | 3 659 960 | 84 946 | 179 085 | 2 397 342 | 11 639 745 | 13 129 606 | 24 732 842 | X X |
| 326111 | Unsupported plastics bag mfg | 1998.. | 41 136 | 1 208 914 | 33 740 | 69 864 | 854 735 | 3 858 583 | 3 726 907 | 7 565 137 | 2 3 |
| | | 1997.. | 40 733 | 1 169 892 | 33 174 | 69 116 | 808 656 | 3 405 517 | 3 903 985 | 7 300 982 | X X |
| 326112 | Unsupported plastics packaging film & sheet mfg | 1998.. | 14 973 | 554 635 | 11 902 | 25 659 | 393 691 | 1 483 536 | 1 932 174 | 3 419 228 | 2 4 |
| | | 1997.. | 15 351 | 549 120 | 11 905 | 26 366 | 389 115 | 1 564 822 | 2 009 303 | 3 581 917 | X X |
| 326113 | Unsupported plastics film & sheet (except packaging) mfg | 1998.. | 53 813 | 1 935 698 | 39 684 | 82 898 | 1 213 945 | 6 489 391 | 7 061 453 | 13 534 997 | 1 1 |
| | | 1997.. | 54 573 | 1 940 948 | 39 867 | 83 603 | 1 199 571 | 6 669 406 | 7 216 318 | 13 849 943 | X X |
| 32612 | Plastics pipe, pipe fitting, & unsupported profile shape mfg | 1998.. | 48 218 | 1 508 069 | 36 044 | 72 541 | 946 009 | 4 244 596 | 4 978 355 | 9 276 550 | 2 2 |
| | | 1997.. | 47 762 | 1 422 415 | 36 097 | 71 744 | 889 498 | 4 096 971 | 5 232 483 | 9 285 139 | X X |
| 326121 | Unsupported plastics profile shape mfg | 1998.. | 28 415 | 895 991 | 20 378 | 40 801 | 528 971 | 2 391 550 | 2 037 565 | 4 412 874 | 3 1 |
| | | 1997.. | 27 752 | 869 811 | 20 389 | 40 871 | 520 656 | 2 302 420 | 2 172 419 | 4 488 086 | X X |
| 326122 | Plastics pipe & pipe fitting mfg | 1998.. | 19 803 | 612 078 | 15 666 | 31 739 | 417 038 | 1 853 045 | 2 940 789 | 4 863 676 | 3 4 |
| | | 1997.. | 20 010 | 552 604 | 15 708 | 30 873 | 368 842 | 1 794 551 | 3 060 064 | 4 797 053 | X X |
| 32613 | Laminated plastics plate, sheet, & shape mfg | 1998.. | 15 691 | 541 705 | 12 206 | 27 021 | 360 747 | 1 472 244 | 1 367 457 | 2 855 551 | 2 2 |
| | | 1997.. | 16 660 | 547 169 | 12 939 | 27 363 | 367 397 | 1 632 775 | 1 573 457 | 3 207 676 | X X |
| 32614 | Polystyrene foam product mfg | 1998.. | 30 455 | 835 502 | 24 988 | 49 848 | 606 468 | 2 967 155 | 2 625 260 | 5 546 664 | 1 2 |
| | | 1997.. | 27 519 | 787 450 | 21 739 | 44 509 | 531 175 | 2 529 140 | 2 615 102 | 5 149 | |

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

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| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments ¹ (\$1,000) | Relative standard error of estimate ² (percent) for column— |
|------------|---------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | | | | |
| 326 | Plastics & rubber products mfg—Con. | | | | | | | | | |
| 3261 | Plastics product mfg—Con. | | | | | | | | | |
| 32615 | Urethane & other foam product (except polystyrene) mfg | 1998.. | 36 395 | 1 042 253 | 28 937 | 55 038 | 675 531 | 2 897 149 | 3 848 267 | 6 736 131 |
| | | 1997.. | 37 614 | 1 011 453 | 30 000 | 56 814 | 661 521 | 2 813 283 | 3 884 032 | 6 678 859 |
| 326150 | Urethane & other foam product (except polystyrene) mfg | 1998.. | 36 395 | 1 042 253 | 28 937 | 55 038 | 675 531 | 2 897 149 | 3 848 267 | 6 736 131 |
| | | 1997.. | 37 614 | 1 011 453 | 30 000 | 56 814 | 661 521 | 2 813 283 | 3 884 032 | 6 678 859 |
| 32616 | Plastics bottle mfg | 1998.. | 35 681 | 1 026 782 | 30 362 | 61 407 | 771 020 | 3 448 228 | 3 563 554 | 7 007 098 |
| 326160 | Plastics bottle mfg | 1998.. | 35 681 | 1 026 782 | 30 362 | 61 407 | 771 020 | 3 448 228 | 3 563 554 | 7 007 098 |
| 32619 | Other plastics product mfg | 1998.. | 559 648 | 15 540 383 | 444 041 | 878 098 | 10 051 508 | 39 942 970 | 32 827 160 | 72 752 244 |
| | | 1997.. | 552 290 | 14 825 065 | 433 897 | 846 851 | 9 477 294 | 37 964 919 | 32 160 392 | 70 008 482 |
| 326191 | Plastics plumbing fixture mfg | 1998.. | 19 352 | 498 664 | 14 958 | 32 111 | 324 446 | 1 421 636 | 1 021 576 | 2 431 881 |
| | | 1997.. | 19 359 | 455 236 | 15 006 | 29 816 | 301 193 | 1 242 812 | 937 911 | 2 185 349 |
| 326192 | Resilient floor covering mfg | 1998.. | 6 484 | 277 255 | 5 107 | 10 367 | 202 214 | 986 982 | 724 656 | 1 729 258 |
| | | 1997.. | 6 070 | 270 689 | 4 739 | 9 694 | 199 622 | 987 612 | 704 616 | 1 671 237 |
| 326199 | All other plastics product mfg | 1998.. | 533 812 | 14 764 464 | 423 975 | 835 620 | 9 524 847 | 37 534 351 | 31 080 928 | 68 591 104 |
| | | 1997.. | 526 861 | 14 099 140 | 414 152 | 807 341 | 8 976 479 | 35 734 495 | 30 517 865 | 66 151 896 |
| 3262 | Rubber product mfg | 1998.. | 206 801 | 6 987 863 | 165 405 | 337 976 | 5 011 142 | 18 677 051 | 16 644 363 | 35 347 559 |
| | | 1997.. | 203 740 | 6 812 698 | 162 114 | 331 963 | 4 889 207 | 18 133 344 | 16 681 539 | 34 873 975 |
| 32621 | Tire mfg | 1998.. | 73 710 | 3 032 559 | 61 533 | 124 741 | 2 397 893 | 8 053 342 | 7 366 919 | 15 427 200 |
| | | 1997.. | 72 304 | 2 965 563 | 60 130 | 123 543 | 2 347 957 | 7 923 991 | 7 762 444 | 15 714 079 |
| 326211 | Tire mfg (except retreading) | 1998.. | 65 498 | 2 826 129 | 55 229 | 111 075 | 2 258 435 | 7 594 860 | 6 811 455 | 14 413 893 |
| | | 1997.. | 64 365 | 2 773 176 | 54 182 | 110 689 | 2 220 478 | 7 522 980 | 7 184 252 | 14 731 472 |
| 326212 | Tire retreading | 1998.. | 8 212 | 206 430 | 6 304 | 13 666 | 139 459 | 458 482 | 555 463 | 1 013 307 |
| | | 1997.. | 7 939 | 192 387 | 5 948 | 12 854 | 127 479 | 401 011 | 578 192 | 982 607 |
| 32622 | Rubber & plastics hoses & belting mfg | 1998.. | 24 789 | 792 586 | 19 581 | 40 537 | 550 698 | 2 242 763 | 1 969 403 | 4 238 119 |
| | | 1997.. | 24 182 | 749 220 | 18 758 | 39 339 | 521 633 | 2 162 353 | 1 822 849 | 4 025 238 |
| 326220 | Rubber & plastics hoses & belting mfg | 1998.. | 24 789 | 792 586 | 19 581 | 40 537 | 550 698 | 2 242 763 | 1 969 403 | 4 238 119 |
| | | 1997.. | 24 182 | 749 220 | 18 758 | 39 339 | 521 633 | 2 162 353 | 1 822 849 | 4 025 238 |
| 32629 | Other rubber product mfg | 1998.. | 108 302 | 3 162 718 | 84 291 | 172 699 | 2 062 551 | 8 380 946 | 7 308 041 | 15 682 241 |
| | | 1997.. | 107 254 | 3 097 915 | 83 226 | 169 081 | 2 019 617 | 8 047 000 | 7 096 246 | 15 134 658 |
| 326291 | Rubber product mfg for mechanical use | 1998.. | 56 995 | 1 668 702 | 46 128 | 96 100 | 1 140 272 | 3 999 959 | 3 136 664 | 7 110 086 |
| | | 1997.. | 55 669 | 1 598 812 | 44 404 | 91 858 | 1 087 264 | 3 841 210 | 2 837 559 | 6 653 355 |
| 326299 | All other rubber product mfg | 1998.. | 51 308 | 1 494 016 | 38 163 | 76 599 | 922 278 | 4 380 986 | 4 171 377 | 8 572 154 |
| | | 1997.. | 51 585 | 1 499 103 | 38 822 | 77 223 | 932 353 | 4 205 790 | 4 258 687 | 8 481 303 |
| 327 | Nonmetallic mineral product mfg | 1998.. | 511 680 | 17 010 039 | 399 811 | 838 540 | 12 027 661 | 52 910 335 | 39 918 475 | 92 898 146 |
| | | 1997.. | 504 425 | 16 271 263 | 391 082 | 802 473 | 11 382 705 | 49 708 174 | 37 341 613 | 87 012 983 |
| 3271 | Clay product & refractory mfg | 1998.. | 78 535 | 2 257 647 | 62 623 | 125 124 | 1 597 637 | 5 995 901 | 3 195 046 | 9 202 829 |
| | | 1997.. | 80 740 | 2 245 025 | 64 108 | 126 939 | 1 581 857 | 5 918 470 | 3 179 035 | 9 093 276 |
| 32711 | Pottery, ceramics, & plumbing fixture mfg | 1998.. | 41 455 | 1 134 900 | 33 587 | 65 739 | 827 088 | 2 910 729 | 1 244 185 | 4 145 136 |
| | | 1997.. | 42 594 | 1 114 914 | 34 256 | 66 104 | 803 716 | 2 795 863 | 1 167 173 | 3 947 995 |
| 327111 | Vitreous china plumbing fixture & bathroom accessories mfg | 1998.. | 9 604 | 306 131 | 8 328 | 17 371 | 254 868 | 877 618 | 323 097 | 1 199 102 |
| | | 1997.. | 9 222 | 284 871 | 7 816 | 16 305 | 234 827 | 807 165 | 287 587 | 1 109 995 |
| 327112 | Vitreous china, fine earthenware, & other pottery product mfg | 1998.. | 22 134 | 510 126 | 17 721 | 33 580 | 363 906 | 1 220 293 | 484 719 | 1 693 985 |
| | | 1997.. | 23 290 | 504 789 | 18 600 | 33 680 | 353 746 | 1 190 098 | 508 498 | 1 670 799 |
| 327113 | Porcelain electrical supply mfg | 1998.. | 9 717 | 318 643 | 7 539 | 14 788 | 208 314 | 812 818 | 436 368 | 1 252 049 |
| | | 1997.. | 10 082 | 325 254 | 7 840 | 16 119 | 215 143 | 798 600 | 371 088 | 1 167 201 |
| 32712 | Clay building material & refractories mfg | 1998.. | 37 080 | 1 122 747 | 29 036 | 59 385 | 770 549 | 3 085 172 | 1 950 862 | 5 057 693 |
| | | 1997.. | 38 146 | 1 130 111 | 29 852 | 60 835 | 778 141 | 3 122 607 | 2 011 862 | 5 145 281 |
| 327121 | Brick & structural clay tile mfg | 1998.. | 13 489 | 370 236 | 10 820 | 22 512 | 256 037 | 1 045 701 | 426 342 | 1 493 536 |
| 327122 | Ceramic wall & floor tile mfg | 1998.. | 13 808 | 364 199 | 10 947 | 22 336 | 250 809 | 976 780 | 442 818 | 1 421 766 |
| 327123 | Other structural clay product mfg | 1998.. | 8 392 | 205 276 | 7 160 | 13 951 | 160 257 | 531 865 | 301 172 | 816 897 |
| 327123 | Other structural clay product mfg | 1997.. | 8 804 | 216 199 | 7 481 | 15 109 | 167 164 | 562 204 | 300 251 | 859 028 |
| 327124 | Clay refractory mfg | 1998.. | 5 617 | 201 829 | 4 231 | 8 793 | 139 947 | 534 343 | 484 719 | 1 693 985 |
| | | 1997.. | 5 781 | 199 274 | 4 386 | 8 809 | 138 806 | 564 030 | 536 453 | 1 670 799 |
| 327125 | Nonclay refractory mfg | 1998.. | 8 092 | 307 136 | 5 682 | 11 817 | 189 437 | 882 875 | 650 914 | 1 535 825 |
| | | 1997.. | 8 421 | 315 276 | 6 013 | 12 636 | 198 485 | 938 652 | 681 157 | 1 631 172 |
| 3272 | Glass & glass product mfg | 1998.. | 127 368 | 4 446 203 | 105 009 | 216 580 | 3 334 574 | 13 836 666 | 8 734 845 | 22 518 320 |
| | | 1997.. | 128 876 | 4 436 753 | 105 296 | 217 793 | 3 327 045 | 14 074 051 | 8 749 015 | 22 766 145 |
| 32721 | Glass & glass product mfg | 1998.. | 127 368 | 4 446 203 | 105 009 | 216 580 | 3 334 574 | 13 836 666 | 8 734 845 | 22 518 320 |
| | | 1997.. | 128 876 | 4 436 753 | 105 296 | 217 793 | 3 327 045 | 14 074 051 | 8 749 015 | 22 766 145 |
| 327211 | Flat glass mfg | 1998.. | 11 255 | 534 062 | 9 279 | 20 952 | 418 493 | 1 767 022 | 936 703 | 2 715 104 |
| | | 1997.. | 11 579 | 535 454 | 9 474 | 21 457 | 421 377 | 1 888 714 | 926 796 | 2 795 507 |
| 327212 | Other pressed & blown glass & glassware mfg | 1998.. | 35 055 | 1 215 620 | 29 533 | 61 748 | 947 627 | 4 186 650 | 1 881 969 | 6 025 404 |
| | | 1997.. | 35 588 | 1 233 610 | 29 597 | 61 607 | 947 689 | 4 358 006 | 1 814 250 | 6 116 020 |
| 327213 | Glass container mfg | 1998.. | 20 044 | 824 990 | 17 951 | 36 064 | 700 752 | 2 683 971 | 1 599 039 | 4 235 155 |
| | | 1997.. | 21 184 | 840 703 | 18 679 | 37 300 | 710 641 | 2 557 999 | 1 589 110 | 4 198 122 |
| 327215 | Glass product mfg made of purchased glass | 1998.. | 61 014 | 1 871 531 | 48 245 | 97 816 | 1 267 702 | 5 199 023 | 4 317 133 | 9 542 658 |
| | | 1997.. | 60 525 | 1 826 986 | 47 546 | 97 429 | 1 247 338 | 5 269 332 | 4 418 859 | 9 656 496 |
| 3273 | Cement & concrete product mfg | 1998.. | 204 238 | 6 805 092 | 155 553 | 333 373 | 4 661 132 | 20 542 898 | 18 965 805 | 39 560 883 |
| | | 1997.. | 197 115 | 6 261 360 | 147 421 | 304 403 | 4 218 398 | 18 168 395 | 16 857 673 | 35 012 905 |
| 32731 | Cement mfg | 1998.. | 17 260 | 766 544 | 12 713 | 27 898 | 516 921 | 4 329 312 | 2 644 713 | 6 986 196 |
| | | 1997.. | 16 973 | 735 506 | 12 524 | 27 294 | 498 875 | 4 027 714 | 2 479 050 | 6 540 243 |
| 327310 | Cement mfg | 1998.. | 17 260 | 766 544 | 12 713 | 27 898 | 516 921 | 4 329 312 | 2 644 713 | 6 986 196 |
| | | 1997.. | 16 973 | 735 506 | 12 524 | 27 294 | 498 875 | 4 027 714 | 2 479 050 | 6 540 243 |
| 32732 | Ready-mix concrete mfg | 1998.. | 95 837 | 3 225 542 | 76 215 | 160 839 | 2 379 354 | 8 941 915 | 10 700 233 | 19 664 438 |
| | | 1997.. | 94 300 | 3 006 613 | 73 339 | 149 767 | 2 180 972 | 7 901 168 | 9 574 533 | 17 496 457 |
| 327320 | Ready-mix concrete mfg | 1998.. | 95 837 | 3 225 542 | 76 215 | 160 839 | 2 379 354 | 8 941 915 | 10 700 233 | 19 664 438 |
| | | 1997.. | 94 300 | 3 006 613 | 73 339 | 149 767 | 2 180 972 | 7 901 168 | 9 574 533 | 17 496 457 |
| 32733 | Concrete pipe, brick, & block mfg | 1998.. | 34 116 | 1 115 519 | 23 783 | 51 682 | 663 234 | 3 288 994 | 2 613 722 | 5 918 884 |
| | | 1997.. | 32 617 | 1 003 954 | 22 353 | 47 356 | 588 973 | 2 701 199 | 2 268 587 | 4 932 802 |
| 327331 | | | | | | | | | | |

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| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments ¹ (\$1,000) | Relative standard error of estimate ² (percent) for column— |
|------------|------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | F | G | H | |
| 327 | Nonmetallic mineral product mfg—Con. | | | | | | | | | |
| 3273 | Cement & concrete product mfg—Con. | | | | | | | | | |
| 32739 | Other concrete product mfg | 1998.. | 57 025 | 1 697 488 | 42 841 | 92 953 | 1 101 623 | 3 982 677 | 3 007 136 | 6 991 364 |
| | | 1997.. | 53 225 | 1 515 287 | 39 205 | 79 986 | 949 578 | 3 538 314 | 2 535 503 | 6 043 403 |
| 327390 | Other concrete product mfg | 1998.. | 57 025 | 1 697 488 | 42 841 | 92 953 | 1 101 623 | 3 982 677 | 3 007 136 | 6 991 364 |
| | | 1997.. | 53 225 | 1 515 287 | 39 205 | 79 986 | 949 578 | 3 538 314 | 2 535 503 | 6 043 403 |
| 3274 | Lime & gypsum product mfg | 1998.. | 20 350 | 764 382 | 16 339 | 37 393 | 580 498 | 3 551 452 | 2 919 003 | 6 529 389 |
| | | 1997.. | 19 094 | 700 958 | 15 168 | 34 539 | 515 220 | 2 857 490 | 2 753 830 | 5 618 874 |
| 32741 | Lime mfg | 1998.. | 5 793 | 224 007 | 4 422 | 10 232 | 166 989 | 762 201 | 533 663 | 1 309 217 |
| | | 1997.. | 5 358 | 196 630 | 4 103 | 9 096 | 146 230 | 621 746 | 554 887 | 1 181 697 |
| 327410 | Lime mfg | 1998.. | 5 793 | 224 007 | 4 422 | 10 232 | 166 989 | 762 201 | 533 663 | 1 309 217 |
| | | 1997.. | 5 358 | 196 630 | 4 103 | 9 096 | 146 230 | 621 746 | 554 887 | 1 181 697 |
| 32742 | Gypsum product mfg | 1998.. | 14 557 | 540 375 | 11 917 | 27 161 | 413 509 | 2 789 252 | 2 385 340 | 5 220 172 |
| | | 1997.. | 13 736 | 504 328 | 11 065 | 25 443 | 368 990 | 2 235 744 | 2 198 943 | 4 437 177 |
| 327420 | Gypsum product mfg | 1998.. | 14 557 | 540 375 | 11 917 | 27 161 | 413 509 | 2 789 252 | 2 385 340 | 5 220 172 |
| | | 1997.. | 13 736 | 504 328 | 11 065 | 25 443 | 368 990 | 2 235 744 | 2 198 943 | 4 437 177 |
| 3279 | Other nonmetallic mineral product mfg | 1998.. | 81 189 | 2 736 714 | 60 287 | 126 070 | 1 853 820 | 8 983 417 | 6 103 776 | 15 086 724 |
| | | 1997.. | 78 600 | 2 627 167 | 59 089 | 118 799 | 1 740 185 | 8 689 768 | 5 802 060 | 14 521 783 |
| 32791 | Abrasive product mfg | 1998.. | 21 356 | 746 828 | 14 375 | 31 576 | 440 160 | 2 957 273 | 1 741 319 | 4 738 909 |
| | | 1997.. | 22 605 | 783 548 | 15 916 | 31 084 | 426 008 | 2 940 602 | 1 748 438 | 4 710 047 |
| 327910 | Abrasive product mfg | 1998.. | 21 356 | 746 828 | 14 375 | 31 576 | 440 160 | 2 957 273 | 1 741 319 | 4 738 909 |
| | | 1997.. | 22 605 | 783 548 | 15 916 | 31 084 | 426 008 | 2 940 602 | 1 748 438 | 4 710 047 |
| 32799 | All other nonmetallic mineral product mfg | 1998.. | 59 833 | 1 989 887 | 45 912 | 94 494 | 1 413 660 | 6 026 144 | 4 362 456 | 10 347 815 |
| | | 1997.. | 55 995 | 1 843 619 | 43 173 | 87 715 | 1 314 177 | 5 749 166 | 4 053 622 | 9 811 736 |
| 327991 | Cut stone & stone product mfg | 1998.. | 14 388 | 370 665 | 11 236 | 23 305 | 282 990 | 812 182 | 510 974 | 1 306 738 |
| | | 1997.. | 13 165 | 352 039 | 10 328 | 20 930 | 255 913 | 793 835 | 453 289 | 1 249 927 |
| 327992 | Ground or treated mineral & earth mfg | 1998.. | 10 459 | 389 897 | 7 483 | 15 669 | 235 083 | 1 441 620 | 1 005 880 | 2 449 603 |
| | | 1997.. | 10 144 | 362 670 | 7 159 | 15 153 | 227 500 | 1 433 254 | 951 188 | 2 376 035 |
| 327993 | Mineral wool mfg | 1998.. | 22 733 | 873 659 | 18 456 | 38 113 | 667 562 | 2 697 560 | 1 889 949 | 4 592 380 |
| | | 1997.. | 21 610 | 811 380 | 17 791 | 36 164 | 624 686 | 2 601 843 | 1 803 109 | 4 422 507 |
| 327999 | All other miscellaneous nonmetallic mineral product mfg | 1998.. | 12 253 | 355 666 | 8 737 | 17 407 | 228 026 | 1 074 783 | 945 653 | 1 999 094 |
| | | 1997.. | 11 076 | 317 530 | 7 895 | 15 468 | 206 078 | 920 234 | 846 036 | 1 763 267 |
| 331 | Primary metal mfg | 1998.. | 606 978 | 24 286 776 | 483 161 | 1 017 700 | 17 658 607 | 69 045 415 | 97 020 558 | 166 343 459 |
| | | 1997.. | 609 136 | 23 969 717 | 483 036 | 1 031 768 | 17 463 866 | 68 966 178 | 99 313 881 | 168 233 947 |
| 3311 | Iron & steel mills & ferroalloy mfg | 1998.. | 149 728 | 7 697 674 | 116 950 | 254 236 | 5 771 073 | 24 584 785 | 32 767 733 | 57 384 263 |
| | | 1997.. | 150 113 | 7 616 191 | 117 667 | 258 935 | 5 759 029 | 25 319 358 | 33 165 101 | 58 267 891 |
| 33111 | Iron & steel mills & ferroalloy mfg | 1998.. | 149 728 | 7 697 674 | 116 950 | 254 236 | 5 771 073 | 24 584 785 | 32 767 733 | 57 384 263 |
| | | 1997.. | 150 113 | 7 616 191 | 117 667 | 258 935 | 5 759 029 | 25 319 358 | 33 165 101 | 58 267 891 |
| 331111 | Iron & steel mills | 1998.. | 145 995 | 7 535 856 | 114 336 | 248 170 | 5 667 438 | 24 009 184 | 31 884 479 | 55 930 293 |
| | | 1997.. | 146 389 | 7 459 245 | 115 001 | 252 921 | 5 655 261 | 24 743 241 | 32 306 871 | 56 858 057 |
| 331112 | Electrometallurgical ferroalloy product mfg | 1998.. | 3 733 | 161 818 | 2 614 | 6 066 | 103 635 | 575 601 | 883 254 | 1 453 970 |
| | | 1997.. | 3 724 | 156 946 | 2 666 | 6 014 | 103 768 | 576 117 | 858 230 | 1 409 834 |
| 3312 | Steel product mfg from purchased steel | 1998.. | 64 766 | 2 407 532 | 50 913 | 108 410 | 1 695 515 | 6 736 625 | 12 258 374 | 19 009 870 |
| | | 1997.. | 65 181 | 2 361 163 | 50 645 | 107 202 | 1 642 280 | 6 902 174 | 11 865 040 | 18 704 438 |
| 33121 | Iron & steel pipes & tubes mfg from purchased steel | 1998.. | 27 852 | 1 013 297 | 21 762 | 46 106 | 695 150 | 2 787 609 | 4 953 513 | 7 749 259 |
| | | 1997.. | 27 209 | 990 493 | 21 254 | 44 868 | 665 949 | 2 864 348 | 4 675 156 | 7 504 683 |
| 331210 | Iron & steel pipes & tubes mfg from purchased steel | 1998.. | 27 852 | 1 013 297 | 21 762 | 46 106 | 695 150 | 2 787 609 | 4 953 513 | 7 749 259 |
| | | 1997.. | 27 209 | 990 493 | 21 254 | 44 868 | 665 949 | 2 864 348 | 4 675 156 | 7 504 683 |
| 33122 | Rolling & drawing of purchased steel | 1998.. | 36 915 | 1 394 235 | 29 151 | 62 304 | 1 000 365 | 3 949 016 | 7 304 861 | 11 260 610 |
| | | 1997.. | 37 972 | 1 370 670 | 29 391 | 62 334 | 976 331 | 4 037 826 | 7 189 884 | 11 199 755 |
| 331221 | Cold-rolled steel shape mfg | 1998.. | 14 348 | 653 472 | 10 559 | 22 191 | 450 196 | 1 943 856 | 4 341 771 | 6 293 226 |
| | | 1997.. | 14 197 | 633 162 | 10 304 | 21 399 | 435 258 | 2 039 126 | 4 246 376 | 6 267 017 |
| 331222 | Steel wire drawing | 1998.. | 22 567 | 740 763 | 18 592 | 40 114 | 550 169 | 2 005 160 | 2 963 090 | 4 967 385 |
| | | 1997.. | 23 775 | 737 508 | 19 087 | 40 935 | 541 073 | 1 998 700 | 2 943 508 | 4 932 738 |
| 3313 | Alumina & aluminum production & processing | 1998.. | 85 879 | 3 354 555 | 68 037 | 141 962 | 2 327 636 | 10 757 997 | 20 612 582 | 31 529 460 |
| | | 1997.. | 85 299 | 3 375 953 | 67 387 | 143 940 | 2 372 774 | 10 113 111 | 22 384 094 | 32 688 658 |
| 33131 | Alumina & aluminum production & processing | 1998.. | 85 879 | 3 354 555 | 68 037 | 141 962 | 2 327 636 | 10 757 997 | 20 612 582 | 31 529 460 |
| | | 1997.. | 85 299 | 3 375 953 | 67 387 | 143 940 | 2 372 774 | 10 113 111 | 22 384 094 | 32 688 658 |
| 331311 | Alumina refining | 1998.. | 3 148 | 146 599 | 2 448 | 5 205 | 100 999 | 292 855 | 1 020 053 | 1 313 287 |
| | | 1997.. | 3 035 | 150 696 | 2 278 | 5 060 | 102 416 | 329 432 | 816 488 | 1 219 057 |
| 331312 | Primary aluminum production | 1998.. | 16 317 | 730 453 | 13 098 | 26 621 | 524 792 | 2 100 991 | 3 912 975 | 6 013 501 |
| | | 1997.. | 15 763 | 707 402 | 12 624 | 26 074 | 512 941 | 2 432 972 | 3 706 850 | 6 224 610 |
| 331314 | Secondary smelting & alloying of aluminum | 1998.. | 7 248 | 249 117 | 5 648 | 12 588 | 169 705 | 905 978 | 2 755 116 | 3 653 904 |
| | | 1997.. | 6 714 | 229 293 | 5 111 | 11 069 | 151 748 | 810 026 | 2 842 565 | 3 651 180 |
| 331315 | Aluminum sheet, plate, & foil mfg | 1998.. | 23 203 | 1 079 242 | 17 666 | 38 112 | 735 108 | 4 354 411 | 8 271 370 | 12 727 139 |
| | | 1997.. | 25 111 | 1 199 382 | 19 403 | 41 857 | 840 864 | 3 565 736 | 10 103 793 | 13 755 566 |
| 331316 | Aluminum extruded product mfg | 1998.. | 31 690 | 1 001 575 | 25 803 | 52 270 | 691 486 | 2 540 236 | 3 570 602 | 6 170 183 |
| | | 1997.. | 30 357 | 944 829 | 24 556 | 52 804 | 661 814 | 2 476 351 | 3 742 324 | 6 177 701 |
| 331319 | Other aluminum rolling & drawing | 1998.. | 4 271 | 147 569 | 3 374 | 7 165 | 105 546 | 563 525 | 1 082 466 | 1 651 446 |
| | | 1997.. | 4 319 | 144 351 | 3 415 | 7 076 | 102 991 | 498 594 | 1 172 074 | 1 660 544 |
| 3314 | Nonferrous metal (except aluminum) production & processing | 1998.. | 80 850 | 3 076 602 | 60 511 | 128 505 | 2 065 410 | 9 622 635 | 19 206 030 | 28 976 075 |
| | | 1997.. | 81 717 | 3 068 568 | 60 882 | 132 022 | 2 064 807 | 9 696 423 | 19 662 396 | 29 463 211 |
| 33141 | Nonferrous metal (except aluminum) smelting & refining | 1998.. | 16 115 | 629 369 | 11 704 | 25 494 | 425 457 | 2 371 612 | 6 438 522 | 8 859 384 |
| | | 1997.. | 16 624 | 653 383 | 12 268 | 27 000 | 442 887 | 2 442 494 | 6 757 433 | 9 250 130 |
| 331411 | Primary smelting & refining of copper | 1998.. | 6 539 | 249 314 | 5 000 | 11 174 | 188 795 | 901 687 | 4 598 402 | 5 559 052 |
| | | 1997.. | 7 360 | 287 382 | 5 721 | 12 640 | 218 511 | 1 024 581 | 4 845 126 | 5 907 609 |
| 331419 | Other nonferrous metal primary smelting & refining | 1998.. | 9 576 | 380 054 | 6 703 | 14 319 | 236 662 | 1 469 924 | 1 840 119 | 3 300 332 |
| | | 1997.. | 9 264 | 366 001 | 6 547 | 14 360 | 224 376 | 1 417 913 | 1 912 307 | 3 342 521 |

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments ¹ (\$1,000) | Relative standard error of estimate ² (percent) for column— | |
|------------|-----------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------------------------------|---|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | | |
| | | A | B | C | D | E | F | G | H | | |
| 331 | Primary metal mfg—Con. | | | | | | | | | | |
| 3314 | Nonferrous metal (except aluminum) production & processing—Con. | | | | | | | | | | |
| 33142 | Copper rolling, drawing, extruding, & alloying | 1998.. | 27 990 | 1 025 614 | 21 991 | 46 294 | 720 965 | 3 002 962 | 6 700 189 | 9 770 674 | 1 |
| | | 1997.. | 27 708 | 1 001 529 | 21 372 | 46 611 | 699 500 | 2 992 000 | 6 832 501 | 9 831 523 | X |
| 331421 | Copper rolling, drawing, & extruding | 1998.. | 21 252 | 804 087 | 16 973 | 35 915 | 584 531 | 2 277 886 | 5 210 317 | 7 550 150 | 1 |
| | | 1997.. | 21 137 | 786 184 | 16 601 | 36 598 | 568 259 | 2 309 257 | 5 304 433 | 7 622 853 | X |
| 331422 | Copper wire (except mechanical) drawing | 1998.. | 4 452 | 132 277 | 3 466 | 6 999 | 88 543 | 417 116 | 661 782 | 1 078 921 | 3 |
| | | 1997.. | 4 238 | 124 240 | 3 191 | 6 593 | 82 651 | 359 428 | 659 613 | 1 011 291 | X |
| 331423 | Secondary smelting, refining, & alloying of copper | 1998.. | 2 285 | 89 251 | 1 552 | 3 379 | 47 891 | 307 960 | 828 089 | 1 141 602 | 2 |
| | | 1997.. | 2 333 | 91 105 | 1 580 | 3 420 | 48 590 | 323 315 | 868 455 | 1 197 379 | X |
| 33149 | Other nonferrous metal rolling, drawing, extruding, & alloying | 1998.. | 36 746 | 1 421 618 | 26 817 | 56 717 | 918 988 | 4 248 061 | 6 067 320 | 10 346 017 | 1 |
| | | 1997.. | 37 385 | 1 413 656 | 27 242 | 58 411 | 922 420 | 4 261 929 | 6 072 462 | 10 381 558 | X |
| 331491 | Other nonferrous metal rolling, drawing, & extruding | 1998.. | 25 752 | 1 005 563 | 18 834 | 39 501 | 653 428 | 3 041 227 | 4 041 465 | 7 108 288 | 1 |
| | | 1997.. | 25 834 | 969 865 | 18 883 | 40 987 | 652 754 | 3 051 359 | 4 052 153 | 7 144 137 | X |
| 331492 | Other nonferrous metal secondary smelting, refining, & alloying | 1998.. | 10 994 | 416 055 | 7 983 | 17 216 | 265 559 | 1 206 834 | 2 025 855 | 3 237 729 | 1 |
| | | 1997.. | 11 551 | 423 791 | 8 359 | 17 424 | 269 666 | 1 210 570 | 2 020 309 | 3 237 421 | X |
| 3315 | Foundries | 1998.. | 225 755 | 7 750 413 | 186 750 | 384 587 | 5 798 972 | 17 343 373 | 12 175 839 | 29 443 792 | 2 |
| | | 1997.. | 226 826 | 7 547 842 | 186 455 | 389 669 | 5 624 976 | 16 935 112 | 12 237 250 | 29 109 749 | X |
| 33151 | Ferrous metal foundries | 1998.. | 128 543 | 4 732 839 | 107 257 | 224 262 | 3 620 081 | 10 574 019 | 6 842 975 | 17 391 655 | 3 |
| | | 1997.. | 132 853 | 4 666 674 | 109 800 | 231 999 | 3 551 894 | 10 512 158 | 6 702 332 | 17 533 215 | X |
| 331511 | Iron foundries | 1998.. | 81 659 | 3 217 093 | 68 642 | 146 901 | 2 498 977 | 7 074 898 | 4 930 080 | 11 980 670 | 4 |
| | | 1997.. | 86 198 | 3 234 387 | 71 593 | 154 606 | 2 493 845 | 7 092 629 | 5 172 516 | 12 264 238 | X |
| 331512 | Steel investment foundries | 1998.. | 22 282 | 707 848 | 18 428 | 35 367 | 532 147 | 1 728 776 | 711 634 | 2 445 478 | 4 |
| | | 1997.. | 22 673 | 669 452 | 18 418 | 36 870 | 494 655 | 1 656 130 | 715 264 | 2 341 737 | X |
| 331513 | Steel foundries (except investment) | 1998.. | 24 602 | 807 898 | 20 187 | 41 994 | 588 957 | 1 770 346 | 1 201 261 | 2 965 508 | 1 |
| | | 1997.. | 23 982 | 762 835 | 19 789 | 40 523 | 563 394 | 1 763 399 | 1 174 552 | 2 927 240 | X |
| 33152 | Nonferrous metal foundries | 1998.. | 97 212 | 3 017 574 | 79 493 | 160 325 | 2 178 892 | 6 769 354 | 5 332 864 | 12 052 136 | 1 |
| | | 1997.. | 93 973 | 2 881 168 | 76 655 | 157 670 | 2 073 082 | 6 422 954 | 5 174 918 | 11 576 534 | X |
| 331521 | Aluminum die-casting foundries | 1998.. | 28 055 | 931 683 | 23 162 | 47 728 | 689 579 | 2 098 968 | 1 882 671 | 3 919 001 | 3 |
| | | 1997.. | 27 576 | 902 653 | 22 798 | 47 253 | 678 079 | 1 960 665 | 1 850 055 | 3 811 987 | X |
| 331522 | Nonferrous (except aluminum) die-casting foundries | 1998.. | 17 498 | 510 398 | 14 081 | 26 095 | 355 077 | 1 224 138 | 944 872 | 2 181 841 | 3 |
| | | 1997.. | 16 861 | 489 546 | 13 439 | 26 724 | 338 594 | 1 132 381 | 871 034 | 2 005 227 | X |
| 331524 | Aluminum foundries (except die-casting) | 1998.. | 35 368 | 1 061 338 | 28 887 | 59 543 | 773 760 | 2 292 100 | 1 777 973 | 4 075 547 | 1 |
| | | 1997.. | 34 098 | 1 013 843 | 27 832 | 58 299 | 722 302 | 2 201 294 | 1 748 724 | 3 945 530 | X |
| 331525 | Copper foundries (except die-casting) | 1998.. | 9 394 | 273 952 | 7 889 | 15 841 | 201 239 | 533 631 | 348 136 | 871 972 | 5 |
| | | 1997.. | 8 909 | 260 340 | 7 423 | 15 073 | 192 890 | 520 790 | 341 658 | 854 704 | X |
| 331528 | Other nonferrous foundries (except die-casting) | 1998.. | 6 897 | 240 203 | 5 474 | 11 118 | 159 236 | 620 516 | 379 212 | 1 003 775 | 1 |
| | | 1997.. | 6 529 | 214 786 | 5 163 | 10 321 | 141 217 | 607 824 | 363 447 | 959 086 | X |
| 332 | Fabricated metal product mfg | 1998.. | 1 817 699 | 59 473 125 | 1 373 005 | 2 814 623 | 38 112 130 | 139 426 010 | 114 449 393 | 253 342 261 | 1 |
| | | 1997.. | 1 772 149 | 56 887 563 | 1 332 909 | 2 687 238 | 36 412 612 | 133 775 530 | 110 569 334 | 243 610 498 | X |
| 3321 | Forging & stamping | 1998.. | 164 421 | 5 744 930 | 124 915 | 262 726 | 3 732 809 | 12 907 008 | 12 488 493 | 25 350 513 | 1 |
| | | 1997.. | 159 212 | 5 470 354 | 121 261 | 254 551 | 3 572 059 | 12 353 494 | 11 975 156 | 24 198 295 | X |
| 33211 | Forging & stamping | 1998.. | 164 421 | 5 744 930 | 124 915 | 262 726 | 3 732 809 | 12 907 008 | 12 488 493 | 25 350 513 | 1 |
| | | 1997.. | 159 212 | 5 470 354 | 121 261 | 254 551 | 3 572 059 | 12 353 494 | 11 975 156 | 24 198 295 | X |
| 332111 | Iron & steel forging | 1998.. | 28 770 | 1 148 448 | 21 506 | 45 616 | 759 734 | 2 636 140 | 2 801 330 | 5 441 580 | 2 |
| | | 1997.. | 26 477 | 1 034 307 | 20 012 | 42 612 | 697 208 | 2 399 607 | 2 572 850 | 4 927 676 | X |
| 332112 | Nonferrous forging | 1998.. | 9 402 | 357 789 | 7 119 | 14 884 | 244 471 | 937 953 | 938 335 | 1 867 798 | 1 |
| | | 1997.. | 9 129 | 366 879 | 6 952 | 15 422 | 256 737 | 1 002 573 | 865 845 | 1 858 708 | X |
| 332114 | Custom roll forming | 1998.. | 15 181 | 514 478 | 10 401 | 22 638 | 314 671 | 1 287 725 | 1 948 694 | 3 236 368 | 2 |
| | | 1997.. | 15 440 | 507 792 | 10 970 | 22 984 | 305 255 | 1 261 214 | 1 838 349 | 3 065 423 | X |
| 332115 | Crown & closure mfg | 1998.. | 4 396 | 161 982 | 3 676 | 7 899 | 122 223 | 427 161 | 494 422 | 919 790 | 1 |
| | | 1997.. | 4 628 | 163 702 | 3 843 | 8 087 | 123 497 | 430 337 | 511 827 | 946 801 | X |
| 332116 | Metal stamping | 1998.. | 95 492 | 3 170 470 | 74 029 | 154 617 | 2 044 842 | 6 788 913 | 5 731 652 | 12 491 486 | 1 |
| | | 1997.. | 92 680 | 3 026 763 | 71 559 | 148 676 | 1 951 543 | 6 462 904 | 5 636 418 | 12 068 555 | X |
| 332117 | Powder metallurgy part mfg | 1998.. | 11 179 | 391 763 | 8 185 | 17 072 | 246 868 | 829 117 | 574 060 | 1 393 491 | 1 |
| | | 1997.. | 10 858 | 370 911 | 7 925 | 16 770 | 237 819 | 796 859 | 549 867 | 1 331 132 | X |
| 3322 | Cutlery & handtool mfg | 1998.. | 78 067 | 2 604 104 | 58 917 | 118 968 | 1 572 874 | 7 478 708 | 4 202 867 | 11 686 221 | 1 |
| | | 1997.. | 78 452 | 2 528 465 | 58 512 | 117 880 | 1 553 599 | 7 560 314 | 4 048 640 | 11 580 229 | X |
| 33221 | Cutlery & handtool mfg | 1998.. | 78 067 | 2 604 104 | 58 917 | 118 968 | 1 572 874 | 7 478 708 | 4 202 867 | 11 686 221 | 1 |
| | | 1997.. | 78 452 | 2 528 465 | 58 512 | 117 880 | 1 553 599 | 7 560 314 | 4 048 640 | 11 580 229 | X |
| 332211 | Cutlery & flatware (except precious) mfg | 1998.. | 10 323 | 340 114 | 8 072 | 15 271 | 222 029 | 1 558 922 | 544 316 | 2 111 787 | 1 |
| | | 1997.. | 11 191 | 364 107 | 8 728 | 16 753 | 237 316 | 1 703 305 | 537 232 | 2 200 138 | X |
| 332212 | Hand & edge tool mfg | 1998.. | 51 456 | 1 732 841 | 38 908 | 78 218 | 1 024 117 | 4 312 166 | 2 558 175 | 6 857 971 | 2 |
| | | 1997.. | 50 388 | 1 634 557 | 37 276 | 75 364 | 991 062 | 4 192 677 | 2 366 510 | 6 557 637 | X |
| 332213 | Saw blade & handsaw mfg | 1998.. | 9 190 | 312 923 | 6 482 | 13 249 | 181 187 | 943 049 | 552 817 | 1 479 595 | 2 |
| | | 1997.. | 9 149 | 300 538 | 6 614 | 13 794 | 180 091 | 881 856 | 556 177 | 1 452 540 | X |
| 332214 | Kitchen utensil, pot, & pan mfg | 1998.. | 7 099 | 218 227 | 5 456 | 12 230 | 145 542 | 664 571 | 646 559 | 1 236 867 | 2 |
| | | 1997.. | 7 724 | 229 263 | 5 894 | 11 969 | 145 130 | 782 476 | 588 721 | 1 369 914 | X |
| 3323 | Architectural & structural metals mfg | 1998.. | 397 878 | 12 300 623 | 290 854 | 599 010 | 7 531 679 | 28 231 430 | 29 146 565 | 57 218 986 | 1 |
| | | 1997.. | 383 557 | 11 508 493 | 279 794 | 566 721 | 7 026 625 | 26 657 054 | 27 449 777 | 53 866 233 | X |
| 33231 | Plate work & fabricated structural product mfg | 1998.. | 147 813 | 4 791 384 | 106 615 | 214 507 | 2 932 504 | 11 197 105 | 13 581 153 | 24 747 544 | 1 |
| | | 1997.. | 145 265 | 4 548 386 | 124 312 | 214 148 | 2 766 916 | 10 836 461 | 12 894 101 | 23 591 486 | X |
| 332311 | Prefabricated metal building & component mfg | 1998.. | 25 456 | 814 135 | 17 110 | 36 599 | 452 299 | 1 867 049 | 2 647 254 | 4 483 123 | 5 |
| | | 1997.. | 26 532 | 780 911 | 18 304 | 36 739 | 443 364 | 1 921 823 | 2 600 054 | 4 500 982 | X |
| 332312 | Fabricated structural metal mfg | 1998.. | 96 462 | 3 154 465 | 69 905 | 136 444 | 1 959 599 | 7 758 086 | 9 606 121 | 17 350 962 | 1 |
| | | 1997.. | 93 129 | 2 965 327 | 67 475 | 139 290 | 1 811 677 | 7 331 954 | 9 034 356 | 16 268 951 | X |
| 332313 | Plate work mfg | 1998.. | 25 896 | 822 785 | 19 599 | 41 464 | 520 606 | 1 571 971 | 1 327 779 | 2 913 459 | 2 |
| | | 1997.. | 25 604 | 802 148 | 19 533 | 38 119 | 511 875 | 1 582 684 | | | |

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments ¹ (\$1,000) | Relative standard error of estimate ² (percent) for column— |
|------------|------------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | F | G | H | |
| 332 | Fabricated metal product mfg—Con. | | | | | | | | | |
| 3323 | Architectural & structural metals mfg—Con. | | | | | | | | | |
| 33232 | Ornamental & architectural metal products mfg—Con. | | | | | | | | | |
| 332322 | Sheet metal work mfg | 135 791 | 4 321 964 | 100 726 | 203 288 | 2 692 165 | 9 610 519 | 7 564 709 | 17 096 336 | 1 X 1 |
| 332322 | 1997.. | 129 246 | 4 038 298 | 96 074 | 192 701 | 2 510 867 | 8 797 139 | 7 171 458 | 15 883 897 | X X |
| 332323 | Ornamental & architectural metal work mfg | 36 284 | 1 075 142 | 26 471 | 54 321 | 653 560 | 2 346 368 | 2 075 390 | 4 401 264 | 1 X 3 |
| 332323 | 1997.. | 34 843 | 987 749 | 24 957 | 49 642 | 600 857 | 2 256 865 | 1 942 996 | 4 195 651 | X X |
| 3324 | Boiler, tank, & shipping container mfg | 102 838 | 3 805 937 | 78 573 | 165 119 | 2 559 174 | 9 515 266 | 13 328 367 | 22 768 731 | 1 X 1 |
| 3324 | 1997.. | 103 527 | 3 711 942 | 78 552 | 163 063 | 2 543 268 | 8 950 058 | 14 066 609 | 22 913 467 | X X |
| 33241 | Power boiler & heat exchanger mfg | 28 851 | 1 007 419 | 20 787 | 43 145 | 613 648 | 2 241 470 | 1 993 427 | 4 192 249 | 2 3 |
| 33241 | 1997.. | 27 781 | 955 029 | 19 784 | 41 363 | 583 530 | 2 086 180 | 1 827 878 | 3 887 275 | X X |
| 332410 | Power boiler & heat exchanger mfg | 28 851 | 1 007 419 | 20 787 | 43 145 | 613 648 | 2 241 470 | 1 993 427 | 4 192 249 | 2 3 |
| 332410 | 1997.. | 27 781 | 955 029 | 19 784 | 41 363 | 583 530 | 2 086 180 | 1 827 878 | 3 887 275 | X X |
| 33242 | Metal tank (heavy gauge) mfg | 32 595 | 1 150 321 | 23 627 | 48 782 | 703 117 | 2 487 679 | 2 289 482 | 4 768 009 | 2 3 |
| 33242 | 1997.. | 33 556 | 1 132 370 | 24 090 | 49 193 | 699 526 | 2 398 623 | 2 336 103 | 4 722 936 | X X |
| 332420 | Metal tank (heavy gauge) mfg | 32 595 | 1 150 321 | 23 627 | 48 782 | 703 117 | 2 487 679 | 2 289 482 | 4 768 009 | 2 3 |
| 332420 | 1997.. | 33 556 | 1 132 370 | 24 090 | 49 193 | 699 526 | 2 398 623 | 2 336 103 | 4 722 936 | X X |
| 33243 | Metal can, box, & other metal container (light gauge) mfg | 41 393 | 1 648 197 | 34 159 | 73 192 | 1 242 410 | 4 786 117 | 9 045 458 | 13 808 473 | 1 X 1 |
| 33243 | 1997.. | 42 190 | 1 624 543 | 34 678 | 72 507 | 1 260 212 | 4 465 255 | 9 902 628 | 14 303 256 | X X |
| 332431 | Metal can mfg | 25 271 | 1 139 276 | 21 779 | 46 544 | 913 163 | 3 609 691 | 7 620 476 | 11 186 048 | 1 X 1 |
| 332431 | 1997.. | 27 316 | 1 185 705 | 23 063 | 49 078 | 973 966 | 3 482 779 | 8 623 245 | 12 042 011 | X X |
| 332439 | Other metal container mfg | 16 121 | 508 920 | 12 380 | 26 648 | 329 246 | 1 176 426 | 1 424 982 | 2 622 425 | 2 2 |
| 332439 | 1997.. | 14 874 | 438 838 | 11 615 | 23 429 | 286 246 | 982 476 | 1 279 383 | 2 61 245 | X X |
| 3325 | Hardware mfg | 72 663 | 2 256 842 | 56 256 | 111 885 | 1 446 044 | 5 979 102 | 4 888 678 | 10 976 515 | 1 X 2 |
| 3325 | 1997.. | 74 914 | 2 308 500 | 57 676 | 115 622 | 1 502 880 | 6 109 119 | 4 903 171 | 10 972 552 | X X |
| 33251 | Hardware mfg | 72 663 | 2 256 842 | 56 256 | 111 885 | 1 446 044 | 5 979 102 | 4 888 678 | 10 976 515 | 1 2 |
| 332510 | Hardware mfg | 72 663 | 2 256 842 | 56 256 | 111 885 | 1 446 044 | 5 979 102 | 4 888 678 | 10 976 515 | 1 2 |
| 332510 | 1997.. | 74 914 | 2 308 500 | 57 676 | 115 622 | 1 502 880 | 6 109 119 | 4 903 171 | 10 972 552 | X X |
| 3326 | Spring & wire product mfg | 70 307 | 2 024 031 | 54 206 | 109 106 | 1 340 616 | 4 981 128 | 4 333 532 | 9 312 881 | 1 X 3 |
| 33261 | Spring & wire product mfg | 70 736 | 1 921 620 | 55 015 | 108 433 | 1 255 243 | 4 577 401 | 4 040 755 | 8 599 380 | X X |
| 33261 | 1997.. | 70 307 | 2 024 031 | 54 206 | 109 106 | 1 340 616 | 4 981 128 | 4 333 532 | 9 312 881 | 1 X 3 |
| 332611 | Spring (heavy gauge) mfg | 5 828 | 202 570 | 4 582 | 9 656 | 146 782 | 443 846 | 487 590 | 940 344 | 1 5 |
| 332611 | 1997.. | 5 581 | 183 180 | 4 284 | 9 112 | 127 591 | 422 894 | 428 345 | 845 199 | X X |
| 332612 | Spring (light gauge) mfg | 19 201 | 591 198 | 15 511 | 30 510 | 408 120 | 1 442 892 | 1 195 890 | 2 636 221 | 1 2 |
| 332612 | 1997.. | 18 798 | 564 372 | 15 128 | 30 374 | 389 840 | 1 393 527 | 1 086 676 | 2 481 151 | X X |
| 332618 | Other fabricated wire product mfg | 45 278 | 1 230 263 | 34 113 | 68 940 | 785 714 | 3 094 390 | 2 650 052 | 5 736 316 | 2 5 |
| 332618 | 1997.. | 46 357 | 1 174 068 | 35 603 | 68 947 | 737 812 | 2 760 980 | 2 522 734 | 5 273 030 | X X |
| 3327 | Machine shops, turned product, & screw, nut, & bolt mfg | 442 139 | 14 626 261 | 344 489 | 705 898 | 9 812 840 | 29 155 487 | 15 491 258 | 44 529 807 | 1 X 3 |
| 33271 | Machine shops | 423 692 | 14 048 327 | 328 692 | 649 177 | 9 368 013 | 28 569 636 | 15 045 251 | 43 500 749 | X X |
| 332710 | Machine shops | 304 258 | 9 878 957 | 237 095 | 478 627 | 6 607 164 | 18 371 434 | 8 889 914 | 27 202 515 | 1 4 |
| 332710 | 1997.. | 290 278 | 9 474 361 | 225 370 | 428 312 | 6 327 085 | 18 408 777 | 8 723 257 | 27 041 231 | X X |
| 33272 | Turned product & screw, nut, & bolt mfg | 137 881 | 4 747 304 | 107 394 | 227 271 | 3 205 676 | 10 784 053 | 6 601 344 | 17 327 292 | 1 X 1 |
| 332721 | Precision turned product mfg | 133 414 | 4 573 966 | 103 322 | 220 865 | 3 040 928 | 10 160 859 | 6 360 994 | 16 459 518 | X X |
| 332722 | Bolt, nut, screw, rivet, & washer mfg | 80 837 | 2 699 614 | 64 944 | 138 049 | 1 873 862 | 5 685 689 | 2 845 989 | 8 543 163 | 2 3 |
| 332722 | 1997.. | 80 419 | 2 634 589 | 63 724 | 136 593 | 1 813 535 | 5 508 950 | 2 851 664 | 8 324 857 | X X |
| 3328 | Coating, engraving, heat treating, & allied activities | 159 703 | 4 819 244 | 126 777 | 253 807 | 3 169 918 | 11 049 182 | 7 932 122 | 18 991 848 | 1 X 1 |
| 33281 | Coating, engraving, heat treating, & allied activities | 159 703 | 4 525 102 | 120 108 | 240 960 | 2 938 353 | 10 345 219 | 7 606 849 | 17 959 202 | X X |
| 332811 | Metal heat treating | 23 345 | 860 992 | 18 527 | 38 250 | 581 534 | 2 106 608 | 1 418 366 | 3 535 695 | 3 3 |
| 332812 | Metal coating/engraving (exc jewelry/silverware)/allied services | 60 994 | 1 774 848 | 48 398 | 95 868 | 1 188 442 | 4 741 885 | 4 710 551 | 9 437 974 | 1 X 1 |
| 332813 | Electroplating, plating, polishing, anodizing, & coloring | 57 044 | 2 047 690 | 42 450 | 89 222 | 1 331 814 | 5 098 364 | 3 755 355 | 8 784 130 | 1 X 1 |
| 332813 | 1997.. | 52 995 | 1 939 377 | 39 598 | 84 272 | 1 227 393 | 4 651 909 | 3 509 330 | 8 134 661 | X X |
| 3329 | Other fabricated metal product mfg | 329 684 | 11 291 152 | 238 017 | 488 105 | 6 946 174 | 30 128 699 | 22 637 511 | 52 506 759 | 1 X 1 |
| 33291 | Metal valve mfg | 324 784 | 10 864 760 | 233 299 | 470 831 | 6 652 572 | 28 653 235 | 21 394 126 | 50 020 391 | X X |
| 332911 | Industrial valve mfg | 126 864 | 4 467 538 | 87 194 | 182 059 | 2 566 727 | 13 275 198 | 10 059 557 | 23 201 265 | 1 2 |
| 332911 | 1997.. | 126 383 | 4 367 193 | 86 496 | 178 862 | 2 494 016 | 12 542 540 | 9 451 538 | 22 013 134 | X X |
| 332912 | Fluid power valve & hose fitting mfg | 38 878 | 1 400 739 | 27 199 | 56 993 | 799 101 | 4 148 559 | 2 817 712 | 6 894 196 | 1 1 |
| 332913 | Plumbing fixture fitting & trim mfg | 37 132 | 1 324 392 | 25 567 | 53 632 | 747 932 | 3 951 319 | 2 654 955 | 6 602 909 | X X |
| 332919 | Other metal valve & pipe fitting mfg | 15 498 | 500 881 | 11 262 | 23 462 | 309 612 | 2 029 912 | 1 832 591 | 3 863 946 | 2 13 |
| 33299 | All other fabricated metal product mfg | 18 618 | 592 904 | 13 776 | 28 481 | 377 261 | 1 605 352 | 1 231 251 | 2 815 157 | X X |
| 332991 | Ball & roller bearing mfg | 198 401 | 6 497 567 | 146 803 | 291 969 | 4 158 556 | 16 110 695 | 11 942 588 | 28 007 257 | X X |
| 332991 | 1997.. | 36 884 | 1 401 306 | 30 236 | 63 184 | 1 052 543 | 3 861 818 | 2 383 267 | 6 165 269 | 1 1 |
| 332992 | Small arms ammunition mfg | 36 447 | 1 366 923 | 29 730 | 62 813 | 1 031 939 | 3 698 629 | 2 363 496 | 6 049 553 | X X |
| 332993 | Ammunition (except small arms) mfg | 7 005 | 250 332 | 5 373 | 10 696 | 169 197 | 614 737 | 362 871 | 993 881 | 1 1 |
| 332993 | 1997.. | 6 987 | 247 283 | 5 298 | 10 483 | 169 531 | 594 026 | 364 744 | 951 954 | X X |
| 332994 | Ammunition (except small arms) mfg | 9 625 | 389 567 | 4 984 | 8 366 | 141 381 | 801 634 | 588 130 | 1 398 618 | 1 1 |
| 332994 | 1997.. | 9 427 | 379 450 | 4 953 | 8 979 | 140 831 | 832 388 | 621 024 | 1 497 045 | X X |
| 332994 | Small arms mfg | 9 640 | 321 406 | 7 174 | 14 062 | 198 485 | 860 283 | 388 835 | 1 251 008 | 1 1 |
| 332995 | Other ordnance & accessories mfg | 8 467 | 364 232 | 3 506 | 6 176 | 151 730 | 1 033 354 | 354 525 | 1 249 548 | X X |
| 332995 | 1997.. | 8 618 | 363 890 | 3 507 | 6 513 | 156 368 | 1 024 589 | 357 150 | 1 368 054 | X X |
| 332996 | Fabricated pipe & pipe fitting mfg | 31 167 | 959 477 | 24 039 | 49 883 | 629 885 | 2 225 278 | 2 096 069 | 4 324 426 | 3 2 |
| 332996 | 1997.. | 30 270 | 895 345 | 23 009 | 46 928 | 583 831 | 2 139 842 | 2 087 606 | 4 199 631 | X X |

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments¹ (\$1,000) | Relative standard error of estimate² (percent) for column— |
|------------|----------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | F | G | H | |
| 332 | Fabricated metal product mfg—Con. | | | | | | | | | |
| 3329 | Other fabricated metal product mfg—Con. | | | | | | | | | |
| 33299 | All other fabricated metal product mfg—Con. | | | | | | | | | |
| 332997 | Industrial pattern mfg | 7 887 | 294 654 | 6 651 | 12 883 | 233 084 | 498 119 | 124 150 | 582 100 | 4 X 8 |
| 332997 | 1998.. | 7 959 | 285 038 | 6 518 | 12 568 | 218 201 | 484 631 | 139 305 | 623 927 | |
| 332998 | Enameled iron & metal sanitary ware mfg | 10 149 | 325 928 | 8 013 | 18 300 | 218 763 | 1 025 260 | 631 813 | 1 652 272 | 1 X 1 |
| 332998 | 1997.. | 9 994 | 280 462 | 7 860 | 15 390 | 183 051 | 981 005 | 610 993 | 1 575 505 | |
| 332999 | All other miscellaneous fabricated metal product mfg | 81 996 | 2 516 713 | 60 847 | 122 498 | 1 584 381 | 5 933 018 | 5 633 751 | 11 518 999 | 1 X 2 |
| 332999 | 1997.. | 78 834 | 2 359 132 | 58 458 | 114 309 | 1 474 360 | 5 477 762 | 5 043 745 | 10 491 840 | |
| 333 | Machinery mfg | 1 438 709 | 54 255 276 | 947 611 | 1 916 122 | 29 865 824 | 141 019 217 | 140 248 263 | 280 857 121 | 1 X 1 |
| 333 | 1997.. | 1 425 067 | 53 200 635 | 939 608 | 1 902 298 | 29 219 546 | 138 139 677 | 133 456 050 | 271 039 079 | |
| 3331 | Agriculture, construction, & mining machinery mfg | 211 930 | 7 873 342 | 148 894 | 299 227 | 4 799 228 | 26 085 000 | 31 736 714 | 57 150 793 | 1 X 1 |
| 33311 | 1997.. | 212 405 | 7 735 543 | 149 692 | 299 688 | 4 746 581 | 24 403 287 | 30 142 850 | 54 256 773 | |
| 333111 | Agricultural implement mfg | 93 680 | 3 128 658 | 70 144 | 139 857 | 2 057 038 | 10 847 260 | 13 620 536 | 24 323 007 | 1 X 2 |
| 333111 | 1997.. | 94 987 | 3 110 326 | 70 821 | 141 212 | 2 064 771 | 10 393 963 | 13 226 424 | 23 449 289 | |
| 333112 | Farm machinery & equipment mfg | 66 425 | 2 388 528 | 47 883 | 95 946 | 1 545 133 | 8 086 887 | 8 520 319 | 16 547 210 | 1 X 2 |
| 333112 | 1997.. | 66 370 | 2 370 599 | 47 885 | 95 652 | 1 550 603 | 7 624 348 | 8 468 947 | 15 994 778 | |
| 333112 | Lawn & garden tractor & home lawn & garden equipment mfg | 27 255 | 740 129 | 22 261 | 43 911 | 511 906 | 2 760 373 | 5 100 217 | 7 775 797 | 2 X 1 |
| 333112 | 1997.. | 28 617 | 739 727 | 22 936 | 45 560 | 514 168 | 2 769 615 | 4 757 477 | 7 454 511 | |
| 33312 | Construction machinery mfg | 73 290 | 3 010 653 | 49 748 | 100 597 | 1 784 428 | 10 280 664 | 13 737 568 | 23 674 787 | 2 X 1 |
| 333120 | 1997.. | 74 965 | 2 998 967 | 50 607 | 102 720 | 1 785 316 | 8 959 494 | 12 849 126 | 21 965 455 | |
| 33313 | Construction machinery mfg | 73 290 | 3 010 653 | 49 748 | 100 597 | 1 784 428 | 10 280 664 | 13 737 568 | 23 674 787 | 2 X 1 |
| 33313 | 1997.. | 74 965 | 2 998 967 | 50 607 | 102 720 | 1 785 316 | 8 959 494 | 12 849 126 | 21 965 455 | |
| 33313 | Mining & oil & gas field machinery mfg | 44 960 | 1 734 031 | 29 002 | 58 773 | 957 762 | 4 957 076 | 4 378 610 | 9 152 999 | 1 X 1 |
| 333131 | 1997.. | 42 453 | 1 626 250 | 28 264 | 55 756 | 896 494 | 5 049 830 | 4 067 300 | 8 842 029 | |
| 333132 | Mining machinery & equipment mfg | 14 726 | 527 124 | 9 646 | 20 547 | 294 986 | 1 417 491 | 1 538 869 | 2 943 010 | 1 X 1 |
| 333132 | 1997.. | 13 547 | 486 496 | 9 148 | 18 994 | 274 361 | 1 383 018 | 1 357 074 | 2 710 923 | |
| 3332 | Oil & gas field machinery & equipment mfg | 30 234 | 1 206 907 | 19 356 | 38 226 | 662 776 | 3 539 585 | 2 839 741 | 6 209 989 | 1 X 2 |
| 3332 | 1997.. | 28 906 | 1 139 754 | 19 116 | 36 762 | 622 133 | 3 666 812 | 2 710 226 | 6 131 106 | |
| 3332 | Industrial machinery mfg | 198 571 | 7 727 729 | 111 042 | 213 422 | 3 529 347 | 17 863 643 | 17 178 510 | 35 392 758 | 1 X 2 |
| 33321 | 1997.. | 194 112 | 7 600 430 | 110 543 | 222 778 | 3 447 649 | 19 483 015 | 17 487 514 | 36 678 383 | |
| 333210 | Sawmill & woodworking machinery mfg | 9 313 | 320 836 | 5 606 | 11 578 | 150 650 | 727 595 | 594 780 | 1 304 433 | 3 X 8 |
| 333210 | 1997.. | 9 128 | 302 587 | 5 803 | 11 773 | 159 919 | 691 923 | 630 911 | 1 325 461 | |
| 33322 | Plastics & rubber industry machinery mfg | 9 313 | 320 836 | 5 606 | 11 578 | 150 650 | 727 595 | 594 780 | 1 304 433 | 3 X 8 |
| 33322 | 1997.. | 9 128 | 302 587 | 5 803 | 11 773 | 159 919 | 691 923 | 630 911 | 1 325 461 | |
| 333220 | Plastics & rubber industry machinery mfg | 18 877 | 724 493 | 10 834 | 21 152 | 356 540 | 1 617 796 | 1 578 625 | 3 212 690 | 2 X 7 |
| 333220 | 1997.. | 18 624 | 746 777 | 10 467 | 21 140 | 351 008 | 1 960 958 | 1 666 016 | 3 594 147 | |
| 33329 | Other industrial machinery mfg | 170 381 | 6 682 400 | 94 602 | 180 691 | 3 022 157 | 15 518 252 | 15 005 105 | 30 875 635 | 1 X 2 |
| 333291 | Paper industry machinery mfg | 166 360 | 6 551 066 | 94 273 | 189 865 | 2 936 722 | 16 830 134 | 15 190 587 | 31 758 775 | |
| 333291 | 1997.. | 18 703 | 778 404 | 10 206 | 20 645 | 367 671 | 1 534 878 | 1 774 126 | 3 294 314 | |
| 333292 | Textile machinery mfg | 18 594 | 772 659 | 10 282 | 21 084 | 370 938 | 1 644 833 | 1 847 024 | 3 438 235 | |
| 333292 | 1997.. | 12 870 | 444 033 | 7 856 | 15 601 | 225 464 | 1 029 625 | 719 428 | 1 756 528 | |
| 333293 | Printing machinery & equipment mfg | 18 877 | 724 493 | 10 834 | 21 152 | 356 540 | 1 617 796 | 1 578 625 | 3 212 690 | 2 X 7 |
| 333293 | 1997.. | 18 624 | 746 777 | 10 467 | 21 140 | 351 008 | 1 960 958 | 1 666 016 | 3 594 147 | |
| 333294 | Food product machinery mfg | 21 173 | 870 328 | 11 302 | 23 384 | 404 317 | 2 013 874 | 1 912 124 | 3 969 415 | 2 X 5 |
| 333294 | 1997.. | 21 000 | 852 640 | 11 483 | 23 846 | 403 866 | 1 919 294 | 1 627 357 | 3 528 606 | |
| 333295 | Semiconductor machinery mfg | 19 172 | 731 999 | 11 452 | 22 609 | 364 651 | 1 602 003 | 1 337 579 | 2 931 793 | 2 X 5 |
| 333295 | 1997.. | 19 026 | 715 068 | 11 509 | 22 585 | 354 542 | 1 583 907 | 1 310 832 | 2 877 841 | |
| 333298 | All other industrial machinery mfg | 43 978 | 1 776 467 | 23 077 | 37 163 | 687 203 | 4 590 338 | 5 273 220 | 10 066 710 | 1 X 3 |
| 333298 | 1997.. | 40 087 | 1 701 669 | 20 912 | 42 156 | 610 858 | 6 007 882 | 5 356 942 | 11 158 627 | |
| 3333 | Commercial & service industry machinery mfg | 54 484 | 2 081 169 | 30 709 | 61 289 | 972 852 | 4 747 534 | 3 988 629 | 8 856 874 | 2 X 4 |
| 3333 | 1997.. | 54 103 | 2 062 892 | 31 556 | 63 280 | 961 756 | 4 645 078 | 4 303 356 | 8 983 988 | |
| 33331 | Commercial & service industry machinery mfg | 131 024 | 4 763 771 | 77 858 | 153 519 | 2 123 313 | 15 314 020 | 11 955 377 | 27 199 854 | 1 X 1 |
| 333311 | 1997.. | 130 051 | 4 722 072 | 76 134 | 147 928 | 2 069 500 | 14 151 370 | 11 745 023 | 25 956 096 | |
| 333311 | Automatic vending machine mfg | 9 027 | 230 654 | 6 799 | 14 148 | 135 484 | 677 841 | 796 977 | 1 463 961 | 2 X 6 |
| 333312 | Commercial laundry, drycleaning, & pressing machine mfg | 4 434 | 134 405 | 3 251 | 6 716 | 83 835 | 300 127 | 330 806 | 633 165 | 1 X 1 |
| 333313 | Office machinery mfg | 4 523 | 136 783 | 3 328 | 6 864 | 84 584 | 270 378 | 334 781 | 604 966 | |
| 333314 | Optical instrument & lens mfg | 13 679 | 442 041 | 6 241 | 12 364 | 145 624 | 1 631 395 | 1 356 035 | 2 986 325 | 3 X 1 |
| 333314 | 1997.. | 14 831 | 458 204 | 7 021 | 13 687 | 162 034 | 1 705 676 | 1 359 930 | 3 078 379 | |
| 333315 | Photographic & photocopying equipment mfg | 24 115 | 1 054 002 | 14 714 | 27 376 | 469 299 | 5 263 096 | 3 664 229 | 8 933 232 | 1 X 1 |
| 333319 | Other commercial & service industry machinery mfg | 24 707 | 1 099 950 | 14 768 | 26 756 | 496 203 | 4 542 657 | 3 828 250 | 8 410 124 | |
| 33334 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 174 582 | 5 515 195 | 130 148 | 259 052 | 3 396 154 | 15 496 070 | 17 247 586 | 32 912 458 | 1 X 1 |
| 333341 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 174 416 | 5 353 600 | 128 280 | 258 676 | 3 217 520 | 14 680 544 | 16 009 280 | 30 852 517 | |
| 333341 | 1997.. | 174 416 | 5 353 600 | 128 280 | 258 676 | 3 217 520 | 14 680 544 | 16 009 280 | 30 852 517 | |
| 333341 | Air purification equipment mfg | 16 245 | 463 658 | 12 237 | 23 895 | 274 909 | 1 322 744 | 975 646 | 2 299 577 | 1 X 4 |
| 333342 | Industrial & commercial fan & blower mfg | 16 412 | 478 087 | 11 608 | 23 137 | 262 740 | 1 198 808 | 1 005 712 | 2 215 560 | |
| 333342 | 1997.. | 14 551 | 476 623 | 10 359 | 20 010 | 282 833 | 960 749 | 934 123 | 1 903 799 | |
| 333342 | 1997.. | 13 723 | 432 195 | 9 396 | 19 342 | 245 436 | 1 005 443 | 894 121 | 1 901 196 | |

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments¹ (\$1,000) | Relative standard error of estimate² (percent) for column— |
|------------|----------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | F | G | H | A |
| 333 | Machinery mfg—Con. | | | | | | | | | |
| 3334 | Ventilation, heating, AC, & commercial refrigeration equip mfg—Con. | | | | | | | | | |
| 33341 | Ventilation, heating, AC, & commercial refrigeration equip mfg—Con. | | | | | | | | | |
| 333414 | Heating equipment (except warm air furnaces) mfg | 1998.. | 23 838 | 731 032 | 15 589 | 30 483 | 358 483 | 1 981 276 | 1 644 632 | 3 770 303 |
| 333415 | AC & warm air heating & commercial/industrial refreg equip mfg | 1998.. | 24 597 | 755 114 | 16 088 | 31 910 | 375 893 | 2 068 267 | 1 650 129 | 3 707 615 |
| 333415 | AC & warm air heating & commercial/industrial refreg equip mfg | 1997.. | 119 948 | 3 843 883 | 91 962 | 184 664 | 2 479 929 | 11 231 301 | 13 693 184 | 24 938 789 |
| 333415 | AC & warm air heating & commercial/industrial refreg equip mfg | 1997.. | 119 684 | 3 688 204 | 91 188 | 184 287 | 2 333 451 | 10 408 026 | 12 459 318 | 23 028 146 |
| 3335 | Metalworking machinery mfg | 1998.. | 247 807 | 10 013 223 | 177 854 | 373 203 | 6 358 020 | 19 391 609 | 11 451 271 | 30 803 400 |
| 33351 | Metalworking machinery mfg | 1997.. | 243 399 | 9 851 973 | 174 854 | 365 396 | 6 280 690 | 19 321 017 | 11 274 253 | 30 381 603 |
| 333511 | Industrial mold mfg | 1998.. | 247 807 | 10 013 223 | 177 854 | 373 203 | 6 358 020 | 19 391 609 | 11 451 271 | 30 803 400 |
| 333511 | Industrial mold mfg | 1997.. | 243 399 | 9 851 973 | 174 854 | 365 396 | 6 280 690 | 19 321 017 | 11 274 253 | 30 381 603 |
| 333512 | Machinetool (metal cutting types) mfg | 1998.. | 49 186 | 2 074 642 | 38 884 | 84 392 | 1 474 126 | 3 830 358 | 1 408 774 | 5 187 826 |
| 333512 | Machinetool (metal cutting types) mfg | 1997.. | 48 657 | 2 088 950 | 38 418 | 82 252 | 1 488 623 | 3 701 448 | 1 420 798 | 5 116 635 |
| 333513 | Machine tool (metal forming types) mfg | 1998.. | 27 541 | 1 197 427 | 16 011 | 32 453 | 593 704 | 2 513 600 | 2 883 247 | 5 362 936 |
| 333513 | Machine tool (metal forming types) mfg | 1997.. | 29 347 | 1 266 908 | 16 853 | 34 978 | 623 322 | 2 643 920 | 2 758 373 | 5 251 199 |
| 333514 | Special die & tool, die set, jig, & fixture mfg | 1998.. | 15 110 | 638 908 | 9 552 | 18 945 | 363 471 | 1 435 806 | 947 956 | 2 301 811 |
| 333514 | Special die & tool, die set, jig, & fixture mfg | 1997.. | 14 185 | 598 606 | 9 118 | 18 816 | 345 629 | 1 289 597 | 961 505 | 2 255 011 |
| 333515 | Cutting tool & machine tool accessory mfg | 1998.. | 82 715 | 3 293 355 | 64 067 | 135 868 | 2 289 741 | 5 980 271 | 2 396 528 | 8 401 915 |
| 333515 | Cutting tool & machine tool accessory mfg | 1997.. | 80 113 | 3 229 765 | 62 176 | 128 803 | 2 262 582 | 5 943 861 | 2 383 013 | 8 244 855 |
| 333516 | Rolling mill machinery & equipment mfg | 1998.. | 49 923 | 1 715 486 | 36 030 | 72 522 | 1 091 887 | 3 692 363 | 1 919 670 | 5 505 484 |
| 333516 | Rolling mill machinery & equipment mfg | 1997.. | 47 925 | 1 643 142 | 34 765 | 70 786 | 1 044 834 | 3 588 142 | 1 802 436 | 5 350 008 |
| 333518 | Other metalworking machinery mfg | 1998.. | 4 330 | 180 661 | 2 364 | 4 775 | 85 511 | 344 936 | 313 417 | 667 849 |
| 333518 | Other metalworking machinery mfg | 1997.. | 4 149 | 167 312 | 2 210 | 4 720 | 75 166 | 363 586 | 323 460 | 700 084 |
| 3336 | Engine, turbine, & power transmission equipment mfg | 1998.. | 111 723 | 4 683 754 | 76 414 | 157 529 | 2 853 868 | 14 780 330 | 17 291 141 | 31 952 243 |
| 33361 | Engine, turbine, & power transmission equipment mfg | 1997.. | 113 739 | 4 642 811 | 78 605 | 158 081 | 2 815 728 | 14 564 155 | 15 649 074 | 30 464 987 |
| 333611 | Turbine & turbine generator set unit mfg | 1998.. | 111 723 | 4 683 754 | 76 414 | 157 529 | 2 853 868 | 14 780 330 | 17 291 141 | 31 952 243 |
| 333611 | Turbine & turbine generator set unit mfg | 1997.. | 113 739 | 4 642 811 | 78 605 | 158 081 | 2 815 728 | 14 564 155 | 15 649 074 | 30 464 987 |
| 333612 | Speed changer, industrial high-speed drive, & gear mfg | 1998.. | 15 860 | 611 306 | 11 067 | 22 518 | 374 974 | 1 519 921 | 957 579 | 2 456 406 |
| 333613 | Mechanical power transmission equipment mfg | 1998.. | 21 744 | 789 728 | 15 165 | 31 089 | 483 787 | 1 985 507 | 1 461 190 | 3 424 521 |
| 333613 | Mechanical power transmission equipment mfg | 1997.. | 21 604 | 770 962 | 15 229 | 30 573 | 469 780 | 1 911 335 | 1 411 779 | 3 301 091 |
| 333618 | Other engine equipment mfg | 1998.. | 55 926 | 2 439 118 | 40 063 | 82 588 | 1 555 527 | 8 027 902 | 11 716 597 | 19 717 742 |
| 333618 | Other engine equipment mfg | 1997.. | 56 348 | 2 363 516 | 40 992 | 81 421 | 1 506 171 | 8 304 389 | 10 465 743 | 18 903 863 |
| 3339 | Other general-purpose machinery mfg | 1998.. | 363 072 | 13 678 262 | 225 400 | 460 170 | 6 805 893 | 32 088 545 | 33 387 666 | 65 445 617 |
| 33391 | Pump & compressor mfg | 1998.. | 356 945 | 13 294 206 | 221 500 | 449 751 | 6 641 878 | 31 536 289 | 31 148 056 | 62 448 720 |
| 333911 | Pump & pumping equipment mfg | 1997.. | 70 708 | 2 727 578 | 41 353 | 84 457 | 1 308 494 | 6 979 580 | 7 909 590 | 14 936 350 |
| 333912 | Air & gas compressor mfg | 1998.. | 68 197 | 2 614 706 | 40 246 | 81 727 | 1 254 681 | 6 699 571 | 7 153 413 | 13 774 594 |
| 333912 | Air & gas compressor mfg | 1997.. | 38 324 | 1 529 304 | 22 194 | 46 126 | 727 988 | 3 787 432 | 4 100 597 | 7 761 958 |
| 333913 | Measuring & dispensing pump mfg | 1998.. | 36 552 | 1 422 919 | 21 129 | 43 634 | 675 709 | 3 441 832 | 3 395 232 | 6 824 687 |
| 333913 | Measuring & dispensing pump mfg | 1997.. | 24 821 | 940 349 | 14 795 | 30 071 | 459 586 | 2 492 060 | 3 112 592 | 5 767 290 |
| 333913 | Measuring & dispensing pump mfg | 1997.. | 6 435 | 251 582 | 4 068 | 7 865 | 120 921 | 2 659 928 | 3 044 620 | 5 633 008 |
| 33392 | Material handling equipment mfg | 1998.. | 94 659 | 3 455 351 | 60 722 | 127 325 | 1 735 408 | 7 647 681 | 10 276 960 | 17 956 214 |
| 333921 | Elevator & moving stairway mfg | 1998.. | 92 907 | 3 338 808 | 60 019 | 124 007 | 1 738 859 | 7 244 183 | 9 502 877 | 16 661 819 |
| 333921 | Elevator & moving stairway mfg | 1997.. | 9 489 | 333 280 | 6 048 | 13 055 | 172 004 | 757 162 | 853 942 | 1 615 420 |
| 333922 | Conveyor & conveying equipment mfg | 1998.. | 9 442 | 340 525 | 6 253 | 13 148 | 194 226 | 748 229 | 865 092 | 1 607 066 |
| 333923 | Overhead traveling crane, hoist, & monorail system mfg | 1998.. | 39 260 | 1 554 882 | 22 398 | 47 043 | 647 948 | 3 206 249 | 3 270 412 | 6 564 093 |
| 333923 | Overhead traveling crane, hoist, & monorail system mfg | 1997.. | 39 498 | 1 534 627 | 23 306 | 49 530 | 702 283 | 3 069 238 | 3 310 534 | 6 370 668 |
| 333924 | Industrial truck, tractor, trailer, & stacker machinery mfg | 1998.. | 26 865 | 947 210 | 19 553 | 41 603 | 555 738 | 2 160 430 | 4 168 943 | 6 314 688 |
| 333924 | Industrial truck, tractor, trailer, & stacker machinery mfg | 1997.. | 25 953 | 893 768 | 18 547 | 38 300 | 522 522 | 1 970 404 | 3 612 025 | 5 538 326 |
| 33399 | All other general-purpose machinery mfg | 1998.. | 197 705 | 7 495 333 | 123 325 | 248 388 | 3 761 992 | 17 461 284 | 15 201 116 | 32 553 053 |
| 333991 | Power-driven handtool mfg | 1998.. | 195 841 | 7 340 692 | 121 235 | 244 017 | 3 648 338 | 17 592 535 | 14 491 766 | 32 012 307 |
| 333992 | Welding & soldering equipment mfg | 1998.. | 16 793 | 553 440 | 12 290 | 23 990 | 322 471 | 2 205 600 | 1 954 603 | 4 108 235 |
| 333992 | Welding & soldering equipment mfg | 1997.. | 16 816 | 531 378 | 12 328 | 24 190 | 315 696 | 1 983 354 | 1 660 930 | 3 609 779 |
| 333993 | Packaging machinery mfg | 1998.. | 22 099 | 896 441 | 14 195 | 27 504 | 467 626 | 1 997 530 | 2 382 005 | 4 450 613 |
| 333993 | Packaging machinery mfg | 1997.. | 22 505 | 918 180 | 14 640 | 29 279 | 485 833 | 2 027 004 | 2 453 362 | 4 444 978 |
| 333994 | Industrial process furnace & oven mfg | 1998.. | 32 470 | 1 318 063 | 17 520 | 35 288 | 572 378 | 2 736 649 | 2 200 238 | 4 980 406 |
| 333994 | Industrial process furnace & oven mfg | 1997.. | 32 338 | 1 288 518 | 17 433 | 35 102 | 557 099 | 2 745 751 | 2 134 792 | 4 958 262 |
| 333995 | Fluid power cylinder & actuator mfg | 1998.. | 17 939 | 670 209 | 11 071 | 24 644 | 325 995 | 1 439 279 | 1 326 406 | 2 687 463 |
| 333995 | Fluid power cylinder & actuator mfg | 1997.. | 17 585 | 657 191 | 10 323 | 23 313 | 288 746 | 1 514 113 | 1 367 291 | 2 871 475 |
| 333996 | Fluid power pump & motor mfg | 1998.. | 24 471 | 959 205 | 16 422 | 34 079 | 576 334 | 2 152 418 | 1 493 100 | 3 581 802 |
| 333996 | Fluid power pump & motor mfg | 1997.. | 23 265 | 906 388 | 15 267 | 31 944 | 530 880 | 2 166 148 | 1 394 871 | 2 964 264 |
| 333997 | Scale & balance (except laboratory) mfg | 1998.. | 16 934 | 669 263 | 11 760 | 24 553 | 398 115 | 1 605 624 | 1 288 081 | 2 826 616 |
| 333997 | Scale & balance (except laboratory) mfg | 1997.. | 15 963 | 625 065 | 11 090 | 22 767 | 364 146 | 1 537 014 | 1 288 081 | 2 826 616 |
| 333999 | All other miscellaneous general-purpose machinery mfg | 1998.. | 4 674 | 151 460 | 2 485 | 4 709 | 62 538 | 320 434 | 349 766 | 672 568 |
| 333999 | All other miscellaneous general-purpose machinery mfg | 1997.. | 4 871 | 148 755 | 2 667 | 4 761 | 61 621 | 329 940 | 346 170 | 682 940 |
| 333999 | All other miscellaneous general-purpose machinery mfg | 1998.. | 62 324 | 2 277 253 | 37 582 | 73 621 | 1 036 534 | 5 003 751 | 4 100 128 | 9 107 702 |
| 333999 | All other miscellaneous general-purpose machinery mfg | 1997.. | 62 498 | 2 265 217 | 37 487 | 72 661 | 1 044 317 | 5 289 211 | 3 842 516 | 9 064 664 |

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments¹ (\$1,000) | Relative standard error of estimate² (percent) for column— |
|------------|-----------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | | | | |
| 334 | Computer & electronic product mfg | 1 687 323 | 74 296 424 | 873 743 | 1 739 045 | 27 201 384 | 255 269 125 | 184 937 495 | 440 305 555 | 1 1 |
| | 1998.. | 1 695 165 | 72 635 078 | 878 213 | 1 749 131 | 26 114 699 | 251 698 177 | 186 917 302 | 437 984 354 | X X |
| 3341 | Computer & peripheral equipment mfg | 240 829 | 11 335 167 | 91 889 | 182 291 | 3 260 690 | 49 570 400 | 63 264 436 | 113 454 749 | 1 1 |
| | 1997.. | 241 119 | 10 994 784 | 100 399 | 202 831 | 3 238 901 | 43 048 552 | 65 596 661 | 108 555 755 | X X |
| 33411 | Computer & peripheral equipment mfg | 240 829 | 11 335 167 | 91 889 | 182 291 | 3 260 690 | 49 570 400 | 63 264 436 | 113 454 749 | 1 1 |
| | 1998.. | 241 119 | 10 994 784 | 100 399 | 202 831 | 3 238 901 | 43 048 552 | 65 596 661 | 108 555 755 | X X |
| 334111 | Electronic computer mfg | 96 782 | 4 331 484 | 32 022 | 57 991 | 920 596 | 32 029 565 | 35 233 150 | 67 768 387 | 1 1 |
| 334112 | Computer storage device mfg | 100 094 | 4 282 451 | 36 107 | 67 394 | 954 790 | 25 983 890 | 40 249 350 | 66 401 010 | X X |
| 334113 | Computer terminal mfg | 44 182 | 2 014 924 | 18 914 | 50 544 | 637 311 | 6 694 832 | 9 405 227 | 16 183 388 | 1 1 |
| 334119 | Other computer peripheral equipment mfg | 41 123 | 1 871 113 | 19 820 | 41 542 | 600 106 | 6 433 704 | 7 349 388 | 13 739 770 | X X |
| | 1998.. | 5 565 | 227 007 | 2 422 | 5 405 | 78 490 | 521 166 | 815 637 | 1 335 836 | 4 9 |
| | 1997.. | 5 764 | 253 087 | 2 843 | 5 862 | 89 758 | 529 803 | 941 879 | 1 484 630 | X X |
| 3342 | Communications equipment mfg | 94 300 | 4 761 752 | 38 531 | 68 351 | 1 624 293 | 10 324 837 | 17 810 422 | 28 167 137 | 2 1 |
| | 1997.. | 94 138 | 4 588 133 | 41 629 | 88 033 | 1 594 247 | 10 101 155 | 17 056 044 | 26 930 345 | X X |
| 33421 | Telephone apparatus mfg | 286 423 | 13 829 089 | 131 707 | 255 354 | 4 387 461 | 47 727 955 | 36 749 327 | 83 575 609 | 1 1 |
| | 1998.. | 294 495 | 13 711 330 | 134 704 | 258 985 | 4 409 071 | 47 744 336 | 34 800 869 | 82 088 825 | X X |
| 334210 | Telephone apparatus mfg | 102 170 | 5 350 793 | 42 024 | 79 418 | 1 523 227 | 26 015 486 | 17 228 498 | 42 488 792 | 1 1 |
| 33422 | Radio & TV broadcasting & wireless communications equipment mfg | 104 372 | 5 335 174 | 42 285 | 79 195 | 1 508 701 | 23 701 971 | 14 963 627 | 38 430 324 | X X |
| 334220 | Radio & TV broadcasting & wireless communications equipment mfg | 159 359 | 7 533 328 | 77 797 | 152 722 | 2 584 624 | 19 295 754 | 17 713 700 | 36 849 064 | 1 1 |
| | 1997.. | 165 254 | 7 476 108 | 80 479 | 156 770 | 2 632 069 | 21 514 170 | 18 225 811 | 39 514 753 | X X |
| 33429 | Other communications equipment mfg | 159 359 | 7 533 328 | 77 797 | 152 722 | 2 584 624 | 19 295 754 | 17 713 700 | 36 849 064 | 1 1 |
| | 1997.. | 165 254 | 7 476 108 | 80 479 | 156 770 | 2 632 069 | 21 514 170 | 18 225 811 | 39 514 753 | X X |
| 334290 | Other communications equipment mfg | 24 894 | 944 968 | 11 886 | 23 214 | 279 610 | 2 416 715 | 1 807 129 | 4 237 752 | 2 2 |
| | 1998.. | 24 869 | 900 048 | 11 940 | 23 020 | 268 301 | 2 528 195 | 1 611 431 | 4 143 748 | X X |
| 3343 | Audio & video equipment mfg | 24 894 | 944 968 | 11 886 | 23 214 | 279 610 | 2 416 715 | 1 807 129 | 4 237 752 | 2 2 |
| | 1997.. | 24 869 | 900 048 | 11 940 | 23 020 | 268 301 | 2 528 195 | 1 611 431 | 4 143 748 | X X |
| 33431 | Audio & video equipment mfg | 32 648 | 961 481 | 23 220 | 44 245 | 517 766 | 2 688 712 | 5 630 421 | 8 392 933 | 2 4 |
| 334310 | Audio & video equipment mfg | 30 431 | 912 534 | 20 827 | 40 664 | 461 852 | 2 384 773 | 5 836 536 | 8 247 774 | 2 4 |
| | 1997.. | 32 648 | 961 481 | 23 220 | 44 245 | 517 766 | 2 688 712 | 5 630 421 | 8 392 933 | X X |
| 3344 | Semiconductor & other electronic component mfg | 32 648 | 961 481 | 23 220 | 44 245 | 517 766 | 2 688 712 | 5 630 421 | 8 392 933 | 2 4 |
| | 1997.. | 30 431 | 912 534 | 20 827 | 40 664 | 461 852 | 2 384 773 | 5 836 536 | 8 247 774 | X X |
| 33441 | Semiconductor & other electronic component mfg | 32 648 | 961 481 | 23 220 | 44 245 | 517 766 | 2 688 712 | 5 630 421 | 8 392 933 | 2 4 |
| | 1998.. | 32 648 | 961 481 | 23 220 | 44 245 | 517 766 | 2 688 712 | 5 630 421 | 8 247 774 | X X |
| 334411 | Electron tube mfg | 21 876 | 755 378 | 16 915 | 34 573 | 500 739 | 1 671 649 | 2 133 292 | 3 819 708 | 1 1 |
| 334412 | Bare printed circuit board mfg | 79 972 | 2 442 156 | 63 156 | 131 582 | 1 605 081 | 5 202 129 | 4 198 666 | 9 345 807 | 1 1 |
| 334413 | Semiconductor & related device mfg | 76 194 | 2 307 786 | 57 568 | 116 333 | 1 384 338 | 5 866 899 | 3 884 911 | 9 733 104 | X X |
| 334414 | Electronic capacitor mfg | 202 858 | 10 473 275 | 107 916 | 212 789 | 3 697 880 | 59 782 933 | 15 252 095 | 74 806 896 | 1 1 |
| | 1997.. | 199 706 | 10 122 645 | 106 912 | 216 774 | 3 544 110 | 64 169 054 | 15 129 735 | 78 587 762 | X X |
| 334415 | Electronic resistor mfg | 17 791 | 503 381 | 12 356 | 24 253 | 266 096 | 1 188 872 | 1 017 352 | 2 200 611 | 1 1 |
| 334416 | Electronic coil, transformer, & other inductor mfg | 18 882 | 531 259 | 13 193 | 25 543 | 283 980 | 1 380 079 | 1 144 367 | 2 482 163 | X X |
| 334417 | Electronic connector mfg | 11 317 | 300 133 | 8 291 | 16 040 | 179 498 | 692 355 | 424 631 | 1 119 242 | 3 7 |
| | 1997.. | 11 964 | 314 045 | 8 701 | 16 687 | 178 979 | 811 984 | 450 753 | 1 280 527 | X X |
| 334418 | Printed circuit assembly (electronic assembly) mfg | 19 105 | 468 390 | 14 829 | 29 340 | 268 190 | 953 184 | 555 487 | 1 504 575 | 1 4 |
| | 1997.. | 19 324 | 457 404 | 15 076 | 30 172 | 264 325 | 952 533 | 590 607 | 1 540 587 | X X |
| 334419 | Other electronic component mfg | 39 509 | 1 202 768 | 27 438 | 56 428 | 728 279 | 3 696 994 | 1 629 391 | 5 321 726 | 2 1 |
| | 1997.. | 37 617 | 1 172 969 | 27 766 | 56 231 | 719 210 | 3 818 613 | 1 785 911 | 5 598 906 | X X |
| 334420 | Printed circuit assembly (electronic assembly) mfg | 101 922 | 3 541 699 | 63 041 | 125 680 | 1 585 926 | 9 930 411 | 14 183 750 | 24 551 068 | 3 3 |
| | 1997.. | 111 407 | 3 853 852 | 66 152 | 133 949 | 1 558 817 | 9 957 180 | 15 776 717 | 26 110 051 | X X |
| 334421 | Other electronic component mfg | 89 883 | 2 789 145 | 59 955 | 119 198 | 1 379 149 | 5 688 594 | 4 284 062 | 9 986 459 | 1 1 |
| | 1997.. | 91 832 | 2 759 164 | 61 250 | 118 377 | 1 336 519 | 6 030 025 | 4 399 779 | 10 424 605 | X X |
| 3345 | Navigational, measuring, medical, & control instruments mfg | 485 308 | 23 761 463 | 213 036 | 423 382 | 7 651 970 | 60 380 607 | 31 225 738 | 91 736 063 | 1 1 |
| | 1997.. | 485 179 | 22 868 227 | 209 851 | 416 913 | 7 103 662 | 58 348 969 | 30 907 604 | 89 599 766 | X X |
| 33451 | Navigational, measuring, medical, & control instruments mfg | 485 308 | 23 761 463 | 213 036 | 423 382 | 7 651 970 | 60 380 607 | 31 225 738 | 91 736 063 | 1 1 |
| | 1998.. | 485 179 | 22 868 227 | 209 851 | 416 913 | 7 103 662 | 58 348 969 | 30 907 604 | 89 599 766 | X X |
| 334510 | Electromedical & electrotherapeutic apparatus mfg | 55 495 | 2 691 316 | 24 208 | 48 879 | 760 077 | 7 991 309 | 4 157 190 | 12 082 934 | 3 2 |
| 334511 | Search, detection, navigation, & guidance instrument mfg | 55 231 | 2 644 570 | 24 873 | 50 622 | 743 364 | 7 651 446 | 4 019 734 | 11 636 506 | X X |
| 334512 | Automatic environmental control mfg | 187 997 | 10 246 405 | 69 456 | 134 176 | 2 909 593 | 23 920 251 | 9 133 603 | 33 223 932 | 1 1 |
| 334513 | Industrial process control instrument mfg | 20 158 | 658 533 | 14 130 | 26 407 | 350 067 | 1 927 675 | 1 238 001 | 3 140 685 | 6 4 |
| | 1997.. | 21 470 | 666 464 | 14 922 | 29 904 | 371 348 | 1 737 147 | 1 195 244 | 2 943 971 | X X |
| 334514 | Totalizing fluid meter & counting device mfg | 47 390 | 2 041 235 | 22 170 | 43 079 | 694 721 | 4 755 331 | 2 873 189 | 7 654 861 | 1 2 |
| | 1997.. | 49 050 | 1 997 579 | 21 562 | 41 808 | 628 240 | 5 061 973 | 2 781 749 | 7 864 202 | X X |
| 334515 | Electricity measuring & testing instrument mfg | 16 973 | 713 524 | 11 872 | 23 999 | 437 030 | 2 075 063 | 1 910 124 | 3 970 233 | 1 2 |
| | 1997.. | 17 390 | 683 294 | 12 063 | 23 778 | 419 182 | 2 002 519 | 1 768 609 | 3 772 738 | X X |
| 334516 | Analytical laboratory instrument mfg | 64 692 | 3 278 329 | 29 780 | 61 748 | 1 127 592 | 9 343 004 | 4 869 104 | 14 257 635 | 1 3 |
| | 1997.. | 63 658 | 3 019 508 | 29 735 | 61 093 | 1 032 857 | 8 893 793 | 5 131 349 | 13 922 147 | X X |
| 334517 | Irradiation apparatus mfg | 36 291 | 1 767 733 | 12 814 | 26 037 | 502 497 | 4 470 341 | 2 678 028 | 7 181 818 | 1 1 |
| | 1997.. | 36 219 | 1 703 175 | 13 389 | 27 059 | 476 689 | 4 044 199 | 2 754 618 | 6 821 439 | X X |
| 334518 | Watch, clock, & part mfg | 6 709 | 202 714 | 4 653 | 9 933 | 101 341 | 504 089 | 429 198 | 930 739 | 1 3 |
| | 1997.. | 6 333 | 178 487 | 4 482 | 9 229 | 93 587 | 550 517 | 380 479 | 921 365 | X X |

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments ¹ (\$1,000) | Relative standard error of estimate ² (percent) for column— |
|------------|-------------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------------------------------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | |
| | | A | B | C | D | E | F | G | H | |
| 334 | Computer & electronic product mfg—Con. | | | | | | | | | |
| 3345 | Navigational, measuring, medical, & control instruments mfg—Con. | | | | | | | | | |
| 33451 | Navigational, measuring, medical, & control instruments mfg—Con. | | | | | | | | | |
| 334519 | Other measuring & controlling device mfg | 1998.. | 36 166 | 1 505 027 | 18 333 | 36 920 | 575 384 | 3 372 659 | 2 120 982 | 5 463 441 |
| | | 1997.. | 34 448 | 1 375 521 | 18 248 | 35 545 | 526 400 | 3 205 669 | 2 009 167 | 5 205 682 |
| 2 X | | | 2 X | | | | | | | 2 X |
| 3346 | Mfg & reproducing magnetic & optical media | 1998.. | 57 880 | 1 932 897 | 39 994 | 83 890 | 1 172 658 | 6 094 332 | 4 388 846 | 10 490 109 |
| | | 1997.. | 54 926 | 1 883 763 | 38 871 | 81 100 | 1 135 363 | 5 564 529 | 4 300 034 | 9 854 908 |
| 2 X | | | 2 X | | | | | | | 2 X |
| 33461 | Mfg & reproducing magnetic & optical media | 1998.. | 57 880 | 1 932 897 | 39 994 | 83 890 | 1 172 658 | 6 094 332 | 4 388 846 | 10 490 109 |
| | | 1997.. | 54 926 | 1 883 763 | 38 871 | 81 100 | 1 135 363 | 5 564 529 | 4 300 034 | 9 854 908 |
| 2 X | | | 2 X | | | | | | | 2 X |
| 334611 | Software reproducing | 1998.. | 11 396 | 259 577 | 6 479 | 13 601 | 210 372 | 989 842 | 649 288 | 1 624 809 |
| | | 1997.. | 8 027 | 310 933 | 4 359 | 10 072 | 198 130 | 819 132 | 438 293 | 1 258 435 |
| 9 X | | | 9 X | | | | | | | 11 X |
| 334612 | Prerecorded CD (except software), tape, & record reproducing | 1998.. | 26 756 | 838 159 | 20 645 | 45 011 | 566 824 | 2 904 856 | 1 608 504 | 4 518 586 |
| | | 1997.. | 25 554 | 756 860 | 19 738 | 40 688 | 519 578 | 2 418 969 | 1 432 332 | 3 870 110 |
| 1 X | | | 1 X | | | | | | | 1 X |
| 334613 | Magnetic & optical recording media mfg | 1998.. | 19 728 | 735 161 | 12 871 | 25 278 | 395 462 | 2 199 634 | 2 131 053 | 4 346 715 |
| | | 1997.. | 21 345 | 815 970 | 14 774 | 30 340 | 417 655 | 2 326 428 | 2 429 409 | 4 726 363 |
| 4 X | | | 4 X | | | | | | | 3 X |
| 335 | Electrical equipment, appliance, & component mfg | 1998.. | 601 099 | 19 710 740 | 436 187 | 869 274 | 11 741 985 | 59 392 815 | 57 375 414 | 116 826 120 |
| | | 1997.. | 594 259 | 18 957 344 | 432 795 | 860 625 | 11 364 169 | 57 189 381 | 55 087 286 | 112 188 814 |
| 1 X | | | 1 X | | | | | | | 1 X |
| 3351 | Electric lighting equipment mfg | 1998.. | 73 927 | 2 212 396 | 55 446 | 114 611 | 1 383 806 | 7 594 304 | 5 961 717 | 13 612 587 |
| | | 1997.. | 74 960 | 2 203 938 | 55 734 | 112 227 | 1 360 605 | 7 038 588 | 5 696 122 | 12 715 190 |
| X X | | | X X | | | | | | | 1 X |
| 33511 | Electric lamp bulb & part mfg | 1998.. | 16 004 | 560 394 | 13 135 | 27 065 | 449 881 | 2 177 383 | 1 126 153 | 3 320 979 |
| | | 1997.. | 15 903 | 574 696 | 13 478 | 28 532 | 471 301 | 2 119 597 | 1 185 867 | 3 306 009 |
| 1 X | | | 1 X | | | | | | | X X |
| 335110 | Electric lamp bulb & part mfg | 1998.. | 16 004 | 560 394 | 13 135 | 27 065 | 449 881 | 2 177 383 | 1 126 153 | 3 320 979 |
| | | 1997.. | 15 903 | 574 696 | 13 478 | 28 532 | 471 301 | 2 119 597 | 1 185 867 | 3 306 009 |
| 1 X | | | 1 X | | | | | | | X X |
| 33512 | Lighting fixture mfg | 1998.. | 57 923 | 1 652 002 | 42 311 | 87 546 | 933 925 | 5 416 921 | 4 835 564 | 10 291 608 |
| | | 1997.. | 59 057 | 1 629 242 | 42 256 | 83 695 | 889 304 | 4 918 991 | 4 512 255 | 9 409 181 |
| 2 X | | | 2 X | | | | | | | X X |
| 335121 | Residential electric lighting fixture mfg | 1998.. | 18 212 | 469 851 | 13 724 | 27 504 | 257 214 | 1 232 180 | 1 193 937 | 2 451 041 |
| | | 1997.. | 17 685 | 430 538 | 13 190 | 26 151 | 234 336 | 1 165 304 | 1 087 293 | 2 253 493 |
| 3 X | | | 3 X | | | | | | | X X |
| 335122 | Commercial/industrial/institutional electric lighting fixture mfg | 1998.. | 22 732 | 651 408 | 16 554 | 34 617 | 368 892 | 2 420 696 | 2 066 523 | 4 476 214 |
| | | 1997.. | 23 090 | 657 341 | 16 406 | 33 055 | 364 810 | 2 070 074 | 2 043 226 | 4 100 023 |
| 1 X | | | 1 X | | | | | | | X X |
| 335129 | Other lighting equipment mfg | 1998.. | 16 978 | 530 743 | 12 033 | 25 425 | 307 819 | 1 764 045 | 1 575 104 | 3 364 352 |
| | | 1997.. | 18 282 | 541 363 | 12 660 | 24 489 | 290 158 | 1 683 613 | 1 381 736 | 3 055 665 |
| 4 X | | | 4 X | | | | | | | X X |
| 3352 | Household appliance mfg | 1998.. | 99 794 | 3 101 098 | 82 370 | 158 008 | 2 237 426 | 10 148 876 | 12 639 107 | 22 682 236 |
| | | 1997.. | 97 384 | 2 923 925 | 79 920 | 155 733 | 2 125 936 | 10 110 071 | 11 314 092 | 21 441 693 |
| X X | | | X X | | | | | | | 1 X |
| 33521 | Small electrical appliance mfg | 1998.. | 25 973 | 728 669 | 19 068 | 36 456 | 416 010 | 2 633 048 | 3 251 892 | 5 851 728 |
| | | 1997.. | 27 595 | 751 887 | 20 174 | 37 725 | 436 403 | 2 882 389 | 3 037 362 | 5 932 019 |
| 1 X | | | 1 X | | | | | | | X X |
| 335211 | Electric housewares & household fan mfg | 1998.. | 15 746 | 377 395 | 12 044 | 22 846 | 225 583 | 1 381 964 | 1 783 350 | 3 161 936 |
| | | 1997.. | 17 058 | 411 389 | 12 948 | 24 212 | 251 100 | 1 666 523 | 1 860 256 | 3 532 813 |
| 1 X | | | 1 X | | | | | | | X X |
| 335212 | Household vacuum cleaner mfg | 1998.. | 10 226 | 351 274 | 7 024 | 13 610 | 190 427 | 1 251 084 | 1 468 542 | 2 689 791 |
| | | 1997.. | 10 537 | 340 498 | 7 226 | 13 513 | 185 303 | 1 215 866 | 1 177 106 | 2 399 206 |
| 1 X | | | 1 X | | | | | | | X X |
| 33522 | Major appliance mfg | 1998.. | 73 822 | 2 372 428 | 63 302 | 121 552 | 1 821 415 | 7 515 828 | 9 387 215 | 16 830 508 |
| | | 1997.. | 69 789 | 2 172 038 | 59 746 | 118 008 | 1 689 533 | 7 227 682 | 8 276 730 | 15 509 674 |
| 1 X | | | 1 X | | | | | | | X X |
| 335221 | Household cooking appliance mfg | 1998.. | 18 668 | 539 741 | 15 558 | 30 545 | 364 703 | 1 674 046 | 2 237 378 | 3 867 019 |
| | | 1997.. | 17 543 | 480 836 | 14 427 | 29 986 | 332 777 | 1 718 889 | 1 805 359 | 3 543 231 |
| 5 X | | | 5 X | | | | | | | X X |
| 335222 | Household refrigerator & home freezer mfg | 1998.. | 25 177 | 846 036 | 22 222 | 42 737 | 693 295 | 2 074 321 | 3 239 773 | 5 282 323 |
| | | 1997.. | 24 597 | 801 717 | 21 513 | 41 152 | 648 064 | 1 941 186 | 2 943 884 | 4 887 364 |
| 1 X | | | 1 X | | | | | | | X X |
| 335224 | Household laundry equipment mfg | 1998.. | 16 753 | 565 508 | 14 318 | 26 349 | 438 947 | 2 106 905 | 2 321 843 | 4 427 619 |
| | | 1997.. | 14 801 | 480 076 | 12 925 | 25 055 | 393 537 | 1 792 070 | 2 081 226 | 3 847 002 |
| 1 X | | | 1 X | | | | | | | X X |
| 335228 | Other major household appliance mfg | 1998.. | 13 224 | 421 143 | 11 205 | 21 920 | 324 470 | 1 660 555 | 1 588 221 | 3 253 546 |
| | | 1997.. | 12 848 | 409 409 | 10 881 | 21 815 | 315 155 | 1 775 537 | 1 446 261 | 3 232 077 |
| 1 X | | | 1 X | | | | | | | X X |
| 3353 | Electrical equipment mfg | 1998.. | 208 113 | 7 000 266 | 142 668 | 278 262 | 3 814 398 | 19 116 000 | 17 086 569 | 36 219 359 |
| | | 1997.. | 210 628 | 6 879 392 | 145 595 | 287 220 | 3 795 042 | 19 312 469 | 17 066 711 | 36 381 535 |
| 1 X | | | 1 X | | | | | | | X X |
| 33531 | Electrical equipment mfg | 1998.. | 208 113 | 7 000 266 | 142 668 | 278 262 | 3 814 398 | 19 116 000 | 17 086 569 | 36 219 359 |
| | | 1997.. | 210 628 | 6 879 392 | 145 595 | 287 220 | 3 795 042 | 19 312 469 | 17 066 711 | 36 381 535 |
| 1 X | | | 1 X | | | | | | | X X |
| 335311 | Power, distribution, & specialty transformer mfg | 1998.. | 28 145 | 820 270 | 20 350 | 41 308 | 512 063 | 2 465 362 | 2 361 021 | 4 827 054 |
| | | 1997.. | 26 920 | 826 826 | 20 176 | 41 406 | 519 069 | 2 568 905 | 2 191 884 | 4 749 555 |
| 4 X | | | 4 X | | | | | | | X X |
| 335312 | Motor & generator mfg | 1998.. | 70 293 | 2 123 613 | 55 310 | 105 576 | 1 428 655 | 5 867 840 | 5 645 184 | 11 397 950 |
| | | 1997.. | 74 595 | 2 182 005 | 58 204 | 116 507 | 1 464 208 | 6 167 088 | 6 046 993 | 12 236 737 |
| 3 X | | | 3 X | | | | | | | X X |
| 335313 | Switchgear & switchboard apparatus mfg | 1998.. | 42 225 | 1 514 184 | 29 807 | 61 967 | 880 302 | 4 459 399 | 3 460 039 | 7 890 480 |
| | | 1997.. | 40 906 | 1 443 658 | 28 566 | 58 479 | 843 617 | 4 326 298 | 3 205 635 | 7 531 086 |
| 1 X | | | 1 X | | | | | | | X X |
| 335314 | Relay & industrial control mfg | 1998.. | 67 450 | 2 542 199 | 37 202 | 69 411 | 993 379 | 6 323 399 | 5 620 326 | 12 103 876 |
| | | 1997.. | 68 207 | 2 426 903 | 38 649 | 70 828 | 968 148 | 6 250 178 | 5 622 199 | 11 864 157 |
| 2 X | | | 2 X | | | | | | | X X |
| 3359 | Other electrical equipment & component mfg | 1998.. | 219 265 | 7 396 980 | 155 702 | 318 394 | 4 306 355 | 22 533 636 | 21 688 021 | 44 311 938 |
| | | 1997.. | 211 287 | 6 950 089 | 151 546 | 305 445 | 4 082 586 | 20 728 253 | 21 008 361 | 41 650 396 |
| 1 X | | | 1 X | | | | | | | X X |
| 33591 | Battery mfg | 1998.. | 31 197 | 1 082 269 | 24 578 | 50 532 | 770 977 | 3 505 597 | 3 438 385 | 6 954 643 |
| | | 1997.. | 32 205 | 1 071 046 | 25 550 | 50 446 | 773 607 | 3 517 024 | 3 239 088 | 6 755 008 |
| 1 X | | | 1 X | | | | | | | X X |
| 335911 | Storage battery mfg | 1998.. | 22 441 | 773 814 | 17 913 | 36 965 | 568 124 | 2 049 837 | 2 259 426 | 4 327 656 |
| | | 1997.. | 23 288 | 789 579 | 18 703 | 37 478 | 586 721 | 2 168 025 | 2 244 003 | 4 432 112 |
| 1 X | | | 1 X | | | | | | | X X |
| 3 | | | | | | | | | | |

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments ¹ (\$1,000) | Relative standard error of estimate ² (percent) for column— | |
|------------|------------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------------------------------|-----|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | | |
| | | A | B | C | D | E | F | G | H | | |
| 335 | Electrical equipment, appliance, & component mfg—Con. | | | | | | | | | | |
| 3359 | Other electrical equipment & component mfg—Con. | | | | | | | | | | |
| 33593 | Wiring device mfg | 1998.. | 71 562 | 2 209 806 | 51 967 | 104 768 | 1 326 617 | 6 908 760 | 4 733 118 | 11 720 284 | 1 3 |
| | | 1997.. | 68 447 | 2 080 658 | 50 100 | 99 717 | 1 241 203 | 6 008 006 | 4 313 753 | 10 328 708 | X X |
| 335931 | Current-carrying wiring device mfg | 1998.. | 46 637 | 1 389 097 | 34 002 | 66 377 | 828 582 | 4 102 006 | 2 534 212 | 6 675 703 | 1 2 |
| | | 1997.. | 44 907 | 1 293 583 | 32 867 | 63 417 | 754 029 | 3 553 628 | 2 326 114 | 5 877 522 | X X |
| 335932 | Noncurrent-carrying wiring device mfg | 1998.. | 24 925 | 820 708 | 17 965 | 38 392 | 498 035 | 2 806 754 | 2 198 906 | 5 044 581 | 1 7 |
| | | 1997.. | 23 540 | 787 075 | 17 233 | 36 300 | 487 174 | 2 454 378 | 1 987 639 | 4 451 186 | X X |
| 33599 | All other electrical equipment & component mfg | 1998.. | 60 325 | 2 099 214 | 38 967 | 76 097 | 991 857 | 5 595 556 | 4 768 248 | 10 383 588 | 1 2 |
| | | 1997.. | 55 779 | 1 900 870 | 36 320 | 71 623 | 918 776 | 4 990 016 | 4 374 479 | 9 316 803 | X X |
| 335991 | Carbon & graphite product mfg | 1998.. | 10 856 | 408 514 | 8 072 | 17 586 | 275 439 | 1 304 328 | 1 079 090 | 2 352 836 | 1 1 |
| | | 1997.. | 10 931 | 407 673 | 8 135 | 17 872 | 266 142 | 1 295 315 | 1 115 514 | 2 387 967 | X X |
| 335999 | All other miscellaneous electrical equipment & component mfg..... | 1998.. | 49 469 | 1 690 700 | 30 895 | 58 510 | 716 418 | 4 291 228 | 3 689 158 | 8 030 752 | 1 2 |
| | | 1997.. | 44 848 | 1 493 197 | 28 185 | 53 751 | 652 634 | 3 694 701 | 3 258 965 | 6 928 836 | X X |
| 336 | Transportation equipment mfg | 1998.. | 1 905 683 | 82 410 293 | 1 387 359 | 2 819 706 | 53 119 566 | 245 137 035 | 375 351 953 | 612 096 240 | 1 1 |
| | | 1997.. | 1 851 478 | 79 843 003 | 1 352 659 | 2 758 398 | 51 748 379 | 227 354 888 | 347 946 229 | 574 962 426 | X X |
| 3361 | Motor vehicle mfg | 1998.. | 233 324 | 12 950 694 | 203 128 | 405 235 | 10 769 940 | 64 692 918 | 164 496 162 | 229 329 055 | 1 1 |
| | | 1997.. | 236 052 | 13 016 981 | 207 223 | 423 241 | 10 904 077 | 72 716 397 | 147 760 973 | 220 248 428 | X X |
| 33611 | Automobile & light duty motor vehicle mfg | 1998.. | 199 942 | 11 518 933 | 175 670 | 352 177 | 9 658 452 | 58 820 589 | 152 234 398 | 211 207 715 | 1 1 |
| | | 1997.. | 207 838 | 11 804 330 | 184 298 | 377 637 | 9 966 886 | 68 482 993 | 137 454 538 | 205 758 084 | X X |
| 336111 | Automobile mfg | 1998.. | 109 196 | 6 054 334 | 92 527 | 180 113 | 4 827 121 | 25 534 173 | 71 045 068 | 96 707 919 | 1 1 |
| | | 1997.. | 113 820 | 6 044 445 | 97 859 | 197 349 | 5 190 889 | 28 948 270 | 66 532 755 | 95 365 667 | X X |
| 336112 | Light truck & utility vehicle mfg | 1998.. | 90 746 | 5 464 598 | 83 143 | 172 064 | 4 831 331 | 33 286 416 | 81 189 331 | 114 499 797 | 1 1 |
| | | 1997.. | 94 018 | 5 399 885 | 86 439 | 180 288 | 4 775 997 | 39 534 723 | 70 921 783 | 110 392 417 | X X |
| 33612 | Heavy duty truck mfg | 1998.. | 33 382 | 1 431 761 | 27 457 | 53 058 | 1 111 489 | 5 872 329 | 12 261 764 | 18 121 340 | 1 1 |
| | | 1997.. | 28 214 | 1 212 651 | 27 457 | 53 058 | 1 111 489 | 5 872 329 | 12 261 764 | 18 121 340 | 1 1 |
| 336120 | Heavy duty truck mfg | 1998.. | 33 382 | 1 431 761 | 22 925 | 45 604 | 937 191 | 4 233 404 | 10 306 435 | 14 490 344 | X X |
| | | 1997.. | 28 214 | 1 212 651 | 22 925 | 45 604 | 937 191 | 4 233 404 | 10 306 435 | 14 490 344 | X X |
| 3362 | Motor vehicle body & trailer mfg | 1998.. | 131 427 | 3 676 897 | 105 842 | 208 141 | 2 547 828 | 8 513 741 | 17 345 854 | 26 123 828 | 1 3 |
| | | 1997.. | 125 574 | 3 392 158 | 100 474 | 198 338 | 2 330 057 | 7 758 918 | 15 367 176 | 23 094 219 | X X |
| 33621 | Motor vehicle body & trailer mfg | 1998.. | 131 427 | 3 676 897 | 105 842 | 208 141 | 2 547 828 | 8 513 741 | 17 345 854 | 26 123 828 | 1 3 |
| | | 1997.. | 125 574 | 3 392 158 | 100 474 | 198 338 | 2 330 057 | 7 758 918 | 15 367 176 | 23 094 219 | X X |
| 336211 | Motor vehicle body mfg | 1998.. | 44 559 | 1 295 009 | 33 820 | 67 893 | 872 737 | 2 994 902 | 6 552 177 | 9 876 159 | 3 9 |
| | | 1997.. | 43 399 | 1 241 259 | 33 051 | 66 541 | 844 594 | 3 036 268 | 6 059 102 | 9 096 631 | X X |
| 336212 | Truck trailer mfg | 1998.. | 32 992 | 932 615 | 27 680 | 54 934 | 665 862 | 2 142 134 | 4 425 653 | 6 539 549 | 2 2 |
| | | 1997.. | 30 678 | 836 590 | 25 659 | 50 486 | 578 139 | 1 789 008 | 3 769 198 | 5 507 768 | X X |
| 336213 | Motor home mfg | 1998.. | 18 608 | 552 243 | 15 465 | 29 613 | 384 714 | 1 356 617 | 3 139 067 | 4 496 888 | 1 1 |
| | | 1997.. | 18 086 | 507 700 | 14 706 | 29 834 | 355 910 | 1 215 170 | 2 703 014 | 3 943 709 | X X |
| 336214 | Travel trailer & camper mfg | 1998.. | 35 268 | 897 030 | 28 877 | 55 701 | 624 515 | 2 020 089 | 3 228 957 | 5 211 232 | 1 3 |
| | | 1997.. | 33 411 | 806 609 | 27 058 | 51 477 | 551 414 | 1 718 472 | 2 835 862 | 4 546 111 | X X |
| 3363 | Motor vehicle parts mfg | 1998.. | 802 612 | 31 675 440 | 646 452 | 1 337 841 | 23 403 894 | 78 999 965 | 105 729 825 | 184 414 553 | 1 1 |
| | | 1997.. | 788 210 | 31 187 706 | 635 966 | 1 317 768 | 23 293 924 | 74 415 705 | 104 869 330 | 179 494 380 | X X |
| 33631 | Motor vehicle gasoline engine & engine parts mfg | 1998.. | 98 674 | 4 220 259 | 80 126 | 165 000 | 3 195 790 | 10 989 996 | 16 724 690 | 27 708 889 | 1 1 |
| | | 1997.. | 98 113 | 4 189 632 | 79 979 | 167 083 | 3 198 876 | 9 616 005 | 18 888 245 | 28 562 560 | X X |
| 336311 | Carburetor, piston, piston ring, & valve mfg | 1998.. | 17 469 | 702 127 | 14 368 | 30 349 | 529 259 | 1 620 463 | 1 225 645 | 2 857 846 | 1 2 |
| | | 1997.. | 17 241 | 663 961 | 14 285 | 29 836 | 504 719 | 1 587 949 | 1 138 820 | 2 731 573 | X X |
| 336312 | Gasoline engine & engine parts mfg | 1998.. | 81 205 | 3 518 133 | 65 758 | 134 651 | 2 666 531 | 9 369 532 | 15 499 045 | 24 851 043 | 1 1 |
| | | 1997.. | 80 872 | 3 525 671 | 65 694 | 137 247 | 2 694 157 | 8 028 056 | 17 779 425 | 25 830 987 | X X |
| 33632 | Motor vehicle electrical & electronic equipment mfg | 1998.. | 114 394 | 3 607 907 | 90 344 | 173 848 | 2 521 749 | 8 473 774 | 11 692 345 | 20 139 684 | 1 1 |
| | | 1997.. | 111 999 | 3 682 944 | 88 281 | 170 826 | 2 570 196 | 8 661 142 | 11 465 400 | 20 242 629 | X X |
| 336321 | Vehicular lighting equipment mfg | 1998.. | 15 221 | 589 727 | 11 931 | 23 816 | 428 137 | 1 428 361 | 1 567 806 | 3 003 001 | 1 1 |
| | | 1997.. | 16 506 | 628 534 | 12 913 | 26 471 | 444 640 | 1 586 622 | 1 686 309 | 3 282 824 | X X |
| 336322 | Other motor vehicle electrical & electronic equipment mfg | 1998.. | 99 173 | 3 018 180 | 78 413 | 150 032 | 2 093 612 | 7 045 412 | 10 124 539 | 17 136 683 | 1 1 |
| | | 1997.. | 95 493 | 3 054 410 | 75 368 | 144 355 | 2 125 556 | 7 074 520 | 9 779 091 | 16 959 805 | X X |
| 33633 | Motor vehicle steering & suspension component (except spring) mfg..... | 1998.. | 47 469 | 2 262 317 | 38 933 | 85 149 | 1 770 655 | 5 118 841 | 5 401 979 | 10 569 351 | 1 1 |
| | | 1997.. | 48 567 | 2 336 701 | 39 996 | 85 848 | 1 816 533 | 5 221 534 | 5 411 740 | 10 607 172 | X X |
| 33634 | Motor vehicle brake system mfg | 1998.. | 45 929 | 1 555 623 | 36 778 | 74 899 | 1 131 910 | 4 159 986 | 6 943 477 | 11 111 511 | 3 1 |
| | | 1997.. | 43 425 | 1 513 625 | 34 521 | 71 684 | 1 084 853 | 4 084 612 | 6 987 497 | 11 051 579 | X X |
| 33635 | Motor vehicle transmission & power train parts mfg | 1998.. | 111 548 | 5 675 008 | 89 072 | 201 476 | 4 333 455 | 14 327 681 | 19 983 754 | 33 996 153 | 1 1 |
| | | 1997.. | 110 235 | 5 490 165 | 87 594 | 193 824 | 4 216 549 | 13 267 765 | 18 991 321 | 32 283 241 | X X |
| 336350 | Motor vehicle transmission & power train parts mfg | 1998.. | 111 548 | 5 675 008 | 89 072 | 201 476 | 4 333 455 | 14 327 681 | 19 983 754 | 33 996 153 | 1 1 |
| | | 1997.. | 110 235 | 5 490 165 | 87 594 | 193 824 | 4 216 549 | 13 267 765 | 18 991 321 | 32 283 241 | X X |
| 33636 | Motor vehicle seating & interior trim mfg | 1998.. | 48 419 | 1 628 899 | 38 938 | 80 684 | 1 152 336 | 4 188 834 | 8 015 591 | 12 198 694 | 1 4 |
| | | 1997.. | 47 015 | 1 515 321 | 37 595 | 77 849 | 1 087 354 | 4 194 968 | 7 438 181 | 11 618 705 | X X |
| 336367 | Motor vehicle metal stamping | 1998.. | 123 570 | 5 471 211 | 101 495 | 215 778 | 4 129 141 | 11 494 864 | 12 718 469 | 24 168 624 | 1 1 |
| | | 1997.. | 126 905 | 5 647 964 | 105 445 | 226 727 | 4 422 983 | 10 927 443 | 12 699 257 | 23 668 110 | X X |
| 336370 | Motor vehicle metal stamping | 1998.. | 123 570 | 5 471 211 | 101 495 | 215 778 | 4 129 141 | 11 494 864 | 12 718 469 | 24 168 624 | 1 1 |
| | | 1997.. | 126 905 | 5 647 964 | 105 445 | 226 727 | 4 422 983 | 10 927 443 | 12 699 257 | 23 668 110 | X X |
| 336369 | Other motor vehicle parts mfg | 1998.. | 212 608 | 7 254 217 | 170 765 | 341 007 | 5 168 859 | 20 245 988 | 24 249 518 | 44 521 646 | 1 1 |
| | | 1997.. | 201 951 | 6 811 354 | 162 555 | 323 927 | 4 896 580 | 18 442 236 | 22 987 689 | 41 460 384 | X X |
| 336391 | Motor vehicle air-conditioning mfg | 1998.. | 21 310 | 999 087 | 17 402 | 38 405 | 755 741 | 2 606 692 | 3 001 970 | 5 568 484 | 1 1 |
| | | 1997.. | 21 522 | 1 053 943 | 17 504 | 38 953 | 821 334 | 2 701 288 | 2 875 912 | 5 626 596 | X X |
| 336399 | All other motor vehicle parts mfg | 1998.. | 191 298 | 6 255 130 | 153 363 | 302 601 | 4 413 117 | 17 639 296 | 21 247 548 | 38 953 162 | 1 1 |
| | | 1997.. | 180 429 | 5 757 411 | 145 051 | 284 974 | 4 075 246 | 15 740 948 | 20 111 777 | 35 833 768 | X X |

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments¹ (\$1,000) | Relative standard error of estimate² (percent) for column— | |
|------------|------------------------------------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|-----|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | | |
| | | A | B | C | D | E | F | G | H | | |
| 336 | Transportation equipment mfg—Con. | | | | | | | | | | |
| 3364 | Aerospace product & parts mfg..... | 1998.. | 521 679 | 26 882 756 | 269 506 | 545 708 | 11 791 958 | 75 491 910 | 69 195 953 | 136 194 907 | 1 1 |
| | | 1997.. | 486 480 | 25 132 696 | 250 013 | 501 407 | 10 768 409 | 56 629 259 | 62 144 024 | 118 699 840 | X X |
| 33641 | Aerospace product & parts mfg..... | 1998.. | 521 679 | 26 882 756 | 269 506 | 545 708 | 11 791 958 | 75 491 910 | 69 195 953 | 136 194 907 | 1 1 |
| | | 1997.. | 486 480 | 25 132 696 | 250 013 | 501 407 | 10 768 409 | 56 629 259 | 62 144 024 | 118 699 840 | X X |
| 336411 | Aircraft mfg | 1998.. | 213 083 | 11 278 437 | 106 187 | 200 149 | 4 806 099 | 35 984 556 | 40 560 769 | 69 497 553 | 1 1 |
| | | 1997.. | 202 596 | 10 842 393 | 97 819 | 185 763 | 4 428 659 | 20 775 809 | 36 656 302 | 57 903 327 | X X |
| 336412 | Aircraft engine & engine parts mfg | 1998.. | 85 801 | 4 346 011 | 50 086 | 104 950 | 2 064 811 | 13 196 668 | 12 078 112 | 25 200 707 | 1 1 |
| | | 1997.. | 83 877 | 4 280 732 | 48 778 | 100 096 | 1 960 566 | 11 666 319 | 11 427 789 | 22 833 076 | X X |
| 336413 | Other aircraft part & auxiliary equipment mfg | 1998.. | 145 465 | 6 505 271 | 83 179 | 181 283 | 3 497 681 | 14 606 369 | 8 914 423 | 22 710 726 | 1 1 |
| | | 1997.. | 124 434 | 5 562 967 | 72 662 | 155 052 | 3 012 606 | 13 126 990 | 7 093 006 | 19 353 038 | X X |
| 336414 | Guided missile & space vehicle mfg | 1998.. | 52 955 | 3 422 407 | 17 857 | 34 539 | 863 977 | 9 032 697 | 6 252 477 | 14 784 810 | 1 1 |
| | | 1997.. | 51 398 | 3 123 246 | 18 500 | 35 996 | 815 692 | 8 422 165 | 5 510 454 | 14 545 616 | X X |
| 336415 | Guided missile & space vehicle propulsion unit & parts mfg | 1998.. | 16 685 | 978 396 | 7 294 | 14 824 | 354 622 | 1 966 806 | 870 143 | 2 764 314 | 1 1 |
| | | 1997.. | 17 738 | 1 031 920 | 7 903 | 15 557 | 363 756 | 2 062 154 | 1 061 215 | 3 101 378 | X X |
| 336419 | Other guided missile & space vehicle parts & auxiliary equip mfg | 1998.. | 7 689 | 352 234 | 4 904 | 9 963 | 204 768 | 704 814 | 520 029 | 1 236 797 | 1 1 |
| | | 1997.. | 6 437 | 291 438 | 4 351 | 8 943 | 187 110 | 575 822 | 395 258 | 963 405 | X X |
| 3365 | Railroad rolling stock mfg | 1998.. | 37 351 | 1 433 987 | 26 645 | 55 202 | 854 374 | 3 977 916 | 5 427 590 | 9 386 715 | 1 1 |
| | | 1997.. | 34 012 | 1 319 135 | 23 977 | 53 391 | 796 472 | 3 345 283 | 5 097 254 | 8 263 395 | X X |
| 33651 | Railroad rolling stock mfg | 1998.. | 37 351 | 1 433 987 | 26 645 | 55 202 | 854 374 | 3 977 916 | 5 427 590 | 9 386 715 | 1 1 |
| | | 1997.. | 34 012 | 1 319 135 | 23 977 | 53 391 | 796 472 | 3 345 283 | 5 097 254 | 8 263 395 | X X |
| 336510 | Railroad rolling stock mfg | 1998.. | 37 351 | 1 433 987 | 26 645 | 55 202 | 854 374 | 3 977 916 | 5 427 590 | 9 386 715 | 1 1 |
| | | 1997.. | 34 012 | 1 319 135 | 23 977 | 53 391 | 796 472 | 3 345 283 | 5 097 254 | 8 263 395 | X X |
| 3366 | Ship & boat building | 1998.. | 137 912 | 4 350 350 | 107 280 | 213 736 | 2 953 952 | 9 362 464 | 7 704 967 | 17 048 620 | 1 1 |
| | | 1997.. | 138 904 | 4 396 251 | 105 624 | 209 599 | 2 881 714 | 8 657 665 | 7 575 301 | 16 204 216 | X X |
| 33661 | Ship & boat building | 1998.. | 137 912 | 4 350 350 | 107 280 | 213 736 | 2 953 952 | 9 362 464 | 7 704 967 | 17 048 620 | 1 1 |
| | | 1997.. | 138 904 | 4 396 251 | 105 624 | 209 599 | 2 881 714 | 8 657 665 | 7 575 301 | 16 204 216 | X X |
| 336611 | Ship building & repairing | 1998.. | 94 595 | 3 232 249 | 72 156 | 144 684 | 2 176 641 | 6 634 976 | 4 508 357 | 11 143 333 | 1 1 |
| | | 1997.. | 97 482 | 3 362 277 | 72 376 | 144 866 | 2 184 633 | 6 254 666 | 4 327 510 | 10 582 176 | X X |
| 336612 | Boat building | 1998.. | 43 317 | 1 118 101 | 35 124 | 69 052 | 777 311 | 2 727 487 | 3 196 610 | 5 905 287 | 2 3 |
| | | 1997.. | 41 422 | 1 033 974 | 33 248 | 64 733 | 697 081 | 2 402 999 | 3 247 791 | 5 622 040 | X X |
| 3369 | Other transportation equipment mfg | 1998.. | 41 379 | 1 440 168 | 28 506 | 53 843 | 797 620 | 4 098 121 | 5 451 602 | 9 598 561 | 1 1 |
| | | 1997.. | 42 246 | 1 398 076 | 29 382 | 54 654 | 773 726 | 3 831 661 | 5 132 171 | 8 957 948 | X X |
| 33699 | Other transportation equipment mfg | 1998.. | 41 379 | 1 440 168 | 28 506 | 53 843 | 797 620 | 4 098 121 | 5 451 602 | 9 598 561 | 1 1 |
| | | 1997.. | 42 246 | 1 398 076 | 29 382 | 54 654 | 773 726 | 3 831 661 | 5 132 171 | 8 957 948 | X X |
| 336991 | Motorcycle, bicycle, & parts mfg | 1998.. | 16 269 | 620 738 | 11 776 | 22 983 | 365 023 | 1 588 411 | 1 741 988 | 3 346 237 | 3 2 |
| | | 1997.. | 17 218 | 623 364 | 12 844 | 24 503 | 368 087 | 1 608 897 | 1 806 750 | 3 390 111 | X X |
| 336992 | Military armored vehicle, tank, & tank component mfg | 1998.. | 5 091 | 259 094 | 2 345 | 4 978 | 106 018 | 726 072 | 445 399 | 1 177 477 | 1 1 |
| | | 1997.. | 5 822 | 268 623 | 2 729 | 5 499 | 114 471 | 546 077 | 476 770 | 1 068 421 | X X |
| 336999 | All other transportation equipment mfg | 1998.. | 20 019 | 560 336 | 14 385 | 25 883 | 326 578 | 1 783 638 | 3 264 215 | 5 074 847 | 1 1 |
| | | 1997.. | 19 206 | 506 089 | 13 809 | 24 652 | 291 168 | 1 676 687 | 2 848 651 | 4 499 416 | X X |
| 337 | Furniture & related product mfg | 1998.. | 631 636 | 16 185 101 | 512 032 | 1 001 984 | 11 007 866 | 38 148 620 | 32 439 852 | 70 416 635 | 1 1 |
| | | 1997.. | 606 794 | 15 034 218 | 486 889 | 939 389 | 10 212 128 | 34 896 386 | 29 485 537 | 64 359 154 | X X |
| 3371 | Household & institutional furniture & kitchen cabinet mfg | 1998.. | 408 555 | 9 555 118 | 343 132 | 669 933 | 6 926 490 | 20 962 383 | 19 251 228 | 40 115 479 | 1 1 |
| | | 1997.. | 389 453 | 8 786 833 | 323 537 | 615 000 | 6 341 096 | 19 164 110 | 17 323 459 | 36 462 177 | X X |
| 33711 | Wood kitchen cabinet & counter top mfg | 1998.. | 106 589 | 2 528 005 | 86 929 | 167 903 | 1 804 689 | 5 617 258 | 4 368 589 | 9 957 147 | 1 2 |
| | | 1997.. | 99 322 | 2 322 958 | 79 750 | 151 392 | 1 644 486 | 5 194 933 | 3 898 019 | 9 094 210 | X X |
| 337110 | Wood kitchen cabinet & counter top mfg | 1998.. | 106 589 | 2 528 005 | 86 929 | 167 903 | 1 804 689 | 5 617 258 | 4 368 589 | 9 957 147 | 1 2 |
| | | 1997.. | 99 322 | 2 322 958 | 79 750 | 151 392 | 1 644 486 | 5 194 933 | 3 898 019 | 9 094 210 | X X |
| 33712 | Household & institutional furniture mfg | 1998.. | 301 966 | 7 027 113 | 256 203 | 502 030 | 5 121 801 | 15 345 125 | 14 882 639 | 30 158 331 | 1 1 |
| | | 1997.. | 290 131 | 6 463 875 | 243 787 | 463 608 | 4 696 610 | 13 969 177 | 13 425 440 | 27 367 967 | X X |
| 337121 | Upholstered household furniture mfg | 1998.. | 93 913 | 2 134 986 | 81 361 | 153 793 | 1 642 573 | 4 264 626 | 4 855 937 | 9 118 880 | 1 1 |
| | | 1997.. | 90 009 | 2 022 565 | 77 441 | 144 224 | 1 535 379 | 4 023 169 | 4 321 830 | 8 319 729 | X X |
| 337122 | Nonupholstered wood household furniture mfg | 1998.. | 133 155 | 2 929 544 | 116 824 | 233 026 | 2 237 393 | 6 577 869 | 5 895 518 | 12 403 873 | 1 1 |
| | | 1997.. | 128 248 | 2 682 926 | 111 142 | 214 200 | 2 037 090 | 5 880 357 | 5 383 261 | 11 264 112 | X X |
| 337124 | Metal household furniture mfg | 1998.. | 23 749 | 573 551 | 19 202 | 38 475 | 386 694 | 1 451 128 | 1 337 426 | 2 780 427 | 2 5 |
| | | 1997.. | 22 835 | 503 957 | 18 317 | 35 838 | 340 022 | 1 238 049 | 1 176 035 | 2 418 562 | X X |
| 337125 | Household furniture (except wood & metal) mfg | 1998.. | 4 796 | 115 774 | 3 732 | 7 664 | 79 034 | 225 324 | 270 370 | 500 554 | 4 5 |
| | | 1997.. | 4 708 | 111 758 | 3 641 | 7 199 | 77 339 | 270 273 | 283 112 | 549 298 | X X |
| 337127 | Institutional furniture mfg | 1998.. | 41 990 | 1 184 153 | 31 090 | 60 861 | 701 915 | 2 664 890 | 2 357 104 | 5 022 043 | 2 4 |
| | | 1997.. | 40 058 | 1 058 278 | 29 498 | 54 904 | 640 787 | 2 406 615 | 2 099 422 | 4 495 552 | X X |
| 337129 | Wood television, radio, & sewing machine cabinet mfg | 1998.. | 4 364 | 89 105 | 3 995 | 8 210 | 74 193 | 161 289 | 166 284 | 332 554 | 1 2 |
| | | 1997.. | 4 273 | 84 391 | 3 748 | 7 243 | 65 993 | 150 714 | 161 780 | 320 714 | X X |
| 3372 | Office furniture (including fixtures) mfg | 1998.. | 178 340 | 5 477 182 | 136 162 | 265 522 | 3 371 350 | 13 533 846 | 9 620 646 | 23 086 163 | 1 1 |
| | | 1997.. | 174 652 | 5 198 998 | 132 160 | 262 013 | 3 232 766 | 12 590 495 | 8 958 883 | 21 549 280 | X X |
| 33721 | Office furniture (including fixtures) mfg | 1998.. | 178 340 | 5 477 182 | 136 162 | 265 522 | 3 371 350 | 13 533 846 | 9 620 646 | 23 086 163 | 1 1 |
| | | 1997.. | 174 652 | 5 198 998 | 132 160 | 262 013 | 3 232 766 | 12 590 495 | 8 958 883 | 21 549 280 | X X |
| 337211 | Wood office furniture mfg | 1998.. | 31 502 | 622 380 | 25 940 | 48 898 | 570 201 | 1 950 682 | 1 402 106 | 3 339 700 | 3 2 |
| | | 1997.. | 30 641 | 781 220 | 24 600 | 50 369 | 539 464 | 1 794 129 | 1 323 726 | 3 110 020 | X X |
| 337212 | Custom architectural woodwork & millwork mfg | 1998.. | 25 534 | 785 936 | 17 754 | 35 122 | 450 005 | 1 506 687 | 1 099 551 | 2 582 115 | 4 7 |
| | | 1997.. | 24 376 | 715 401 | 17 402 | 32 734 | 428 720 | 1 348 811 | 848 134 | 2 198 914 | X X |
| 337214 | Office furniture (except wood) mfg | 1998.. | 46 303 | 1 725 322 | 34 567 | 69 965 | 1 023 355 | 5 411 862 | 3 231 608 | 8 657 853 | 1 1 |
| | | 1997.. | 44 222 | 1 621 167 | 32 373 | 69 216 | 979 263 | 4 954 487 | 3 259 266 | 8 230 935 | X X |
| 337215 | Showcase, partition, shelving, & locker mfg | 1998.. | 75 002 | 2 143 544 | 57 901 | 111 536 | 1 327 789 | 4 664 614 | 3 887 381 | 8 506 494 | 2 2 |
| | | 1997.. | 75 413 | 2 081 210 | 57 785 | 109 694 | 1 285 319 | 4 493 068 | 3 527 577 | 8 009 411 | X X |
| 3379 | Other furniture related product mfg | | | | | | | | | | |

Table 2. Statistics for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | | Production workers | | | Value added by manufacture (\$1,000) | Cost of materials (\$1,000) | Value of shipments ¹ (\$1,000) | Relative standard error of estimate ² (percent) for column— | |
|------------|----------------------------------------------|---------------|-------------------|--------------------|---------------|-----------------|--------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------------------------------|-------|
| | | Number | Payroll (\$1,000) | Number | Hours (1,000) | Wages (\$1,000) | | | | | |
| | | A | B | C | D | E | F | G | H | | |
| 337 | Furniture & related product mfg—Con. | | | | | | | | | | |
| 3379 | Other furniture related product mfg—Con. | | | | | | | | | | |
| 33792 | Blind & shade mfg | 1998.. | 21 105 | 492 712 | 15 109 | 30 356 | 310 418 | 1 412 981 | 1 445 493 | 2 856 141 | 3 8 |
| | | 1997.. | 19 617 | 436 757 | 13 892 | 28 338 | 266 786 | 1 157 307 | 1 230 310 | 2 393 564 | X X |
| 337920 | Blind & shade mfg | 1998.. | 21 105 | 492 712 | 15 109 | 30 356 | 310 418 | 1 412 981 | 1 445 493 | 2 856 141 | 3 8 |
| | | 1997.. | 19 617 | 436 757 | 13 892 | 28 338 | 266 786 | 1 157 307 | 1 230 310 | 2 393 564 | X X |
| 339 | Miscellaneous mfg..... | 1998.. | 763 803 | 23 396 326 | 521 048 | 1 018 188 | 12 038 263 | 65 510 042 | 41 927 935 | 107 037 843 | 1 1 |
| | | 1997.. | 733 946 | 21 934 826 | 497 539 | 959 697 | 11 104 787 | 61 944 111 | 38 875 448 | 100 808 702 | X X |
| 3391 | Medical equipment & supplies mfg | 1998.. | 319 890 | 11 365 899 | 205 498 | 396 657 | 5 250 344 | 34 073 934 | 16 057 217 | 50 060 776 | 1 1 |
| 33911 | Medical equipment & supplies mfg | 1998.. | 296 330 | 10 247 977 | 187 732 | 356 822 | 4 580 143 | 30 991 541 | 14 469 465 | 45 562 969 | X X |
| | | 1997.. | 319 890 | 11 365 899 | 205 498 | 396 657 | 5 250 344 | 34 073 934 | 16 057 217 | 50 060 776 | 1 1 |
| 339111 | Laboratory apparatus & furniture mfg | 1998.. | 18 485 | 700 735 | 9 860 | 19 264 | 259 737 | 1 501 753 | 1 066 476 | 2 559 461 | 2 2 |
| | | 1997.. | 18 253 | 686 742 | 9 388 | 18 670 | 257 045 | 1 405 095 | 1 048 768 | 2 471 153 | X X |
| 339112 | Surgical & medical instrument mfg | 1998.. | 110 869 | 4 388 288 | 66 832 | 130 012 | 1 796 599 | 14 426 359 | 5 786 466 | 20 167 343 | 1 1 |
| 339113 | Surgical appliance & supplies mfg | 1998.. | 107 130 | 4 128 530 | 64 243 | 127 765 | 1 670 125 | 13 164 417 | 5 250 104 | 18 401 669 | X X |
| 339114 | Dental equipment & supplies mfg | 1998.. | 93 938 | 3 508 003 | 59 254 | 115 054 | 1 541 162 | 11 218 523 | 6 066 460 | 17 224 481 | 1 2 |
| 339115 | Ophthalmic goods mfg | 1998.. | 85 315 | 2 980 530 | 53 889 | 101 196 | 1 268 260 | 9 992 604 | 5 318 973 | 15 389 467 | X X |
| 339116 | Dental laboratories | 1998.. | 18 093 | 634 859 | 11 811 | 22 622 | 297 067 | 1 713 908 | 995 354 | 2 767 833 | 2 4 |
| | | 1997.. | 18 072 | 613 286 | 11 780 | 21 937 | 284 469 | 1 758 959 | 967 714 | 2 699 867 | X X |
| 3399 | Other miscellaneous mfg | 1998.. | 27 144 | 868 368 | 18 129 | 36 423 | 463 128 | 2 674 571 | 1 156 375 | 3 768 656 | 1 1 |
| 33991 | Jewelry & silverware mfg | 1998.. | 26 366 | 814 242 | 17 936 | 36 389 | 456 771 | 2 511 264 | 1 084 122 | 3 607 813 | X X |
| | | 1997.. | 51 362 | 1 265 646 | 39 612 | 73 282 | 892 651 | 2 538 820 | 986 087 | 3 573 003 | 1 2 |
| | | 1997.. | 41 194 | 1 024 647 | 30 496 | 50 865 | 643 473 | 2 159 202 | 799 784 | 2 993 000 | X X |
| 339911 | Jewelers' material & lapidary work mfg | 1998.. | 443 913 | 12 030 427 | 315 550 | 621 531 | 6 787 918 | 31 436 108 | 25 870 719 | 56 977 067 | 1 1 |
| | | 1997.. | 437 616 | 11 686 849 | 309 807 | 602 875 | 6 524 644 | 30 952 570 | 24 405 983 | 55 245 733 | X X |
| 339912 | Costume jewelry & novelty mfg | 1998.. | 59 421 | 1 560 675 | 41 668 | 77 086 | 853 535 | 3 853 888 | 4 476 041 | 8 301 189 | 2 3 |
| 339913 | Jewelry (except costume) mfg | 1998.. | 61 223 | 1 532 824 | 43 194 | 77 669 | 846 459 | 4 068 400 | 4 482 225 | 8 513 365 | X X |
| 339914 | Silverware & plated ware mfg | 1998.. | 33 122 | 895 518 | 23 220 | 44 919 | 479 081 | 2 190 560 | 2 938 523 | 5 202 239 | 3 5 |
| 339915 | Doll, toy, & game mfg | 1998.. | 34 773 | 866 562 | 24 381 | 43 348 | 480 639 | 2 434 156 | 3 003 361 | 5 422 634 | X X |
| 339916 | Doll & stuffed toy mfg | 1998.. | 6 364 | 209 400 | 4 360 | 6 200 | 113 742 | 567 326 | 374 760 | 902 775 | 5 5 |
| 339917 | Game, toy, & children's vehicle mfg | 1998.. | 6 481 | 187 166 | 4 564 | 7 263 | 108 452 | 539 593 | 384 116 | 905 980 | X X |
| 339918 | Office supplies (except paper) mfg | 1998.. | 6 080 | 140 583 | 4 051 | 7 325 | 78 038 | 299 647 | 627 879 | 921 199 | 4 5 |
| 339919 | Pen & mechanical pencil mfg | 1998.. | 5 396 | 132 940 | 3 650 | 6 717 | 70 364 | 296 187 | 620 457 | 909 066 | X X |
| 339920 | Lead pencil & art good mfg | 1998.. | 14 573 | 326 156 | 10 599 | 20 341 | 187 004 | 798 464 | 474 291 | 1 274 975 | 3 4 |
| 339921 | Marking device mfg | 1998.. | 69 389 | 1 820 854 | 51 208 | 98 698 | 1 018 435 | 6 121 145 | 5 206 070 | 11 209 152 | 2 4 |
| 339922 | Carbon paper & inked ribbon mfg | 1998.. | 69 664 | 1 841 264 | 50 600 | 98 279 | 1 019 771 | 5 821 028 | 4 764 793 | 10 591 160 | X X |
| 339923 | Sign mfg | 1998.. | 33 338 | 860 471 | 24 357 | 47 606 | 1 018 435 | 6 121 145 | 5 206 070 | 11 209 152 | 2 4 |
| 339924 | All other miscellaneous mfg | 1998.. | 3 645 | 67 220 | 2 922 | 5 537 | 48 389 | 200 131 | 111 221 | 306 775 | 9 10 |
| 339925 | Gasket, packing, & sealing device mfg | 1998.. | 29 300 | 766 623 | 21 477 | 39 834 | 429 483 | 2 324 896 | 2 017 059 | 4 328 377 | 1 4 |
| 339926 | Sign mfg | 1998.. | 28 617 | 810 047 | 20 009 | 40 635 | 476 420 | 2 941 822 | 2 063 440 | 4 876 554 | 7 6 |
| 339927 | Sign mfg | 1997.. | 30 138 | 790 191 | 21 209 | 42 109 | 472 200 | 2 602 844 | 1 767 828 | 4 340 456 | X X |
| 339928 | Sign mfg | 1997.. | 8 394 | 261 580 | 6 000 | 11 994 | 157 989 | 954 982 | 673 281 | 1 922 076 | 3 5 |
| 339929 | Sign mfg | 1997.. | 7 619 | 207 329 | 5 840 | 12 481 | 127 128 | 809 038 | 573 243 | 1 376 169 | 2 1 |
| 339930 | Sign mfg | 1997.. | 7 990 | 195 586 | 6 197 | 12 417 | 119 513 | 799 176 | 428 793 | 1 234 456 | X X |
| 339931 | Sign mfg | 1997.. | 8 061 | 187 576 | 4 946 | 9 763 | 108 402 | 422 971 | 236 701 | 656 630 | 2 2 |
| 339932 | Sign mfg | 1997.. | 7 831 | 185 316 | 4 696 | 9 380 | 102 830 | 411 190 | 235 310 | 643 007 | X X |
| 339933 | Sign mfg | 1997.. | 3 629 | 109 395 | 2 427 | 4 864 | 54 815 | 593 410 | 405 398 | 921 678 | 53 28 |
| 339934 | Sign mfg | 1997.. | 5 923 | 147 709 | 4 316 | 8 318 | 91 868 | 436 956 | 430 444 | 872 223 | X X |
| 339935 | Sign mfg | 1997.. | 84 260 | 2 426 297 | 55 636 | 110 156 | 1 265 209 | 4 673 065 | 3 450 184 | 8 102 104 | 1 2 |
| 339936 | Sign mfg | 1997.. | 83 052 | 2 386 738 | 54 029 | 103 439 | 1 207 531 | 4 595 289 | 3 340 542 | 7 925 287 | X X |
| 339937 | All other miscellaneous mfg | 1998.. | 168 887 | 4 552 084 | 122 673 | 247 350 | 2 680 378 | 11 321 161 | 8 546 704 | 19 852 917 | 1 2 |
| 339938 | All other miscellaneous mfg | 1997.. | 160 846 | 4 305 487 | 116 773 | 236 938 | 2 507 591 | 11 045 260 | 8 080 982 | 19 092 972 | X X |
| 339939 | Gasket, packing, & sealing device mfg | 1998.. | 42 670 | 1 318 999 | 30 266 | 61 427 | 794 365 | 3 107 708 | 2 122 358 | 5 282 376 | 2 5 |
| | | 1997.. | 41 655 | 1 279 026 | 29 789 | 61 971 | 755 939 | 3 083 892 | 2 107 261 | 5 195 105 | X X |
| 339940 | Musical instrument mfg | 1998.. | 14 680 | 429 306 | 11 896 | 24 979 | 281 876 | 830 193 | 532 577 | 1 376 783 | 6 8 |
| 339941 | Fastener, button, needle, & pin mfg | 1998.. | 7 980 | 211 529 | 5 845 | 12 934 | 125 177 | 460 801 | 361 303 | 818 435 | 1 4 |
| 339942 | Broom, brush, & mop mfg | 1998.. | 16 257 | 428 607 | 12 329 | 24 328 | 251 448 | 1 178 755 | 950 616 | 2 140 658 | 9 7 |
| 339943 | Burial casket mfg | 1998.. | 7 499 | 216 242 | 5 694 | 10 909 | 149 399 | 920 910 | 330 635 | 1 251 721 | 1 1 |
| 339944 | All other miscellaneous mfg | 1998.. | 6 962 | 212 491 | 5 194 | 10 613 | 145 475 | 882 922 | 384 379 | 1 271 184 | X X |
| 339945 | All other miscellaneous mfg | 1997.. | 73 529 | 1 795 131 | 52 194 | 103 970 | 968 983 | 4 560 616 | 3 791 651 | 8 338 293 | X X |

¹Data represent value of shipments for most industries. For industries 311411, 311412, 311421, 311422, 311711, 311712, 311941, 311999, 312140, 312210, 312221, and 312229 value of production is shown. For industry 336611, value of work done is shown.

²Description of relative standard error of estimate is given in Appendix B. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note: 1997 data may differ from that published in the 1997 Census of Manufactures final industry series because of changes encountered in subsequent 1997 census review or revisions discovered during 1998 Annual Survey of Manufactures review.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— | |
|------------|------------------------------------------------------|---------------|------------------------|-------------|-----------------------|------------------------------------------------------------------------|----|
| | | | Total | Payroll | Total fringe benefits | | |
| | | A | B | C | D | | |
| 31-33 | Manufacturing | 1998.. | 17 056 922 | 739 132 265 | 590 038 804 | 149 093 461 | 1 |
| | | 1997.. | 16 885 806 | 719 798 813 | 572 264 844 | 147 533 969 | X |
| 311 | Food mfg | 1998.. | 1 501 231 | 50 280 295 | 39 684 355 | 10 595 941 | 1 |
| | | 1997.. | 1 470 469 | 48 876 501 | 38 518 457 | 10 358 044 | X |
| 3111 | Animal food mfg | 1998.. | 46 378 | 1 948 242 | 1 537 297 | 410 945 | 1 |
| | | 1997.. | 46 870 | 1 883 411 | 1 486 128 | 397 283 | X |
| 31111 | Animal food mfg | 1998.. | 46 378 | 1 948 242 | 1 537 297 | 410 945 | 1 |
| | | 1997.. | 46 870 | 1 883 411 | 1 486 128 | 397 283 | X |
| 311111 | Dog & cat food mfg | 1998.. | 14 246 | 689 584 | 532 681 | 156 903 | 1 |
| | | 1997.. | 14 106 | 652 112 | 505 730 | 146 382 | X |
| 311119 | Other animal food mfg | 1998.. | 32 132 | 1 258 658 | 1 004 617 | 254 041 | 1 |
| | | 1997.. | 32 764 | 1 231 299 | 980 398 | 250 901 | X |
| 3112 | Grain & oilseed milling | 1998.. | 58 405 | 2 984 494 | 2 342 851 | 641 644 | 1 |
| | | 1997.. | 59 338 | 3 005 889 | 2 362 311 | 643 578 | X |
| 31121 | Flour milling & malt mfg | 1998.. | 17 067 | 743 768 | 595 043 | 148 725 | 2 |
| | | 1997.. | 17 972 | 783 417 | 622 191 | 161 226 | X |
| 311211 | Flour milling | 1998.. | 12 117 | 518 864 | 420 217 | 98 647 | 1 |
| | | 1997.. | 12 799 | 554 048 | 445 650 | 108 398 | X |
| 311212 | Rice milling | 1998.. | 3 664 | 160 714 | 121 482 | 39 233 | 4 |
| | | 1997.. | 3 832 | 158 430 | 119 756 | 38 674 | X |
| 311213 | Malt mfg | 1998.. | 1 286 | 64 189 | 53 344 | 10 845 | 15 |
| | | 1997.. | 1 341 | 70 939 | 56 785 | 14 154 | X |
| 31122 | Starch & vegetable fats & oils mfg | 1998.. | 26 385 | 1 314 262 | 1 021 695 | 292 568 | 1 |
| | | 1997.. | 26 970 | 1 316 466 | 1 022 051 | 294 415 | X |
| 311221 | Wet corn milling | 1998.. | 9 326 | 526 407 | 414 429 | 111 978 | 1 |
| | | 1997.. | 9 217 | 545 541 | 422 533 | 123 008 | X |
| 311222 | Soybean processing | 1998.. | 6 388 | 300 961 | 238 814 | 62 146 | 1 |
| | | 1997.. | 6 601 | 285 871 | 229 727 | 56 144 | X |
| 311223 | Other oilseed processing | 1998.. | 2 444 | 84 261 | 66 167 | 18 094 | 1 |
| | | 1997.. | 2 667 | 93 997 | 73 451 | 20 546 | X |
| 311225 | Fats & oils refining & blending | 1998.. | 8 227 | 402 634 | 302 285 | 100 349 | 3 |
| | | 1997.. | 8 485 | 391 057 | 296 340 | 94 717 | X |
| 31123 | Breakfast cereal mfg | 1998.. | 14 953 | 926 464 | 726 113 | 200 351 | 1 |
| | | 1997.. | 14 396 | 906 006 | 718 069 | 187 937 | X |
| 311230 | Breakfast cereal mfg | 1998.. | 14 953 | 926 464 | 726 113 | 200 351 | 1 |
| | | 1997.. | 14 396 | 906 006 | 718 069 | 187 937 | X |
| 3113 | Sugar & confectionery product mfg | 1998.. | 84 109 | 3 380 853 | 2 631 019 | 749 834 | 1 |
| | | 1997.. | 84 906 | 3 282 309 | 2 561 683 | 720 626 | X |
| 31131 | Sugar mfg | 1998.. | 16 728 | 786 673 | 627 566 | 159 107 | 1 |
| | | 1997.. | 16 577 | 771 550 | 612 809 | 158 741 | X |
| 311311 | Sugarcane mills | 1998.. | 4 903 | 201 817 | 159 956 | 41 861 | 3 |
| | | 1997.. | 4 968 | 213 877 | 168 910 | 44 967 | X |
| 311312 | Cane sugar refining | 1998.. | 3 938 | 254 220 | 198 015 | 56 205 | 1 |
| | | 1997.. | 3 891 | 246 696 | 191 663 | 55 033 | X |
| 311313 | Beet sugar mfg | 1998.. | 7 888 | 330 636 | 269 595 | 61 041 | 2 |
| | | 1997.. | 7 718 | 310 977 | 252 236 | 58 741 | X |
| 31132 | Chocolate & confectionery mfg from cacao beans | 1998.. | 10 000 | 474 220 | 361 589 | 112 631 | 1 |
| | | 1997.. | 9 946 | 501 341 | 383 045 | 118 296 | X |
| 311320 | Chocolate & confectionery mfg from cacao beans | 1998.. | 10 000 | 474 220 | 361 589 | 112 631 | 1 |
| | | 1997.. | 9 946 | 501 341 | 383 045 | 118 296 | X |
| 31133 | Confectionery mfg from purchased chocolate | 1998.. | 29 859 | 1 120 594 | 865 521 | 255 073 | 1 |
| | | 1997.. | 32 871 | 1 104 737 | 856 440 | 248 297 | X |
| 311330 | Confectionery mfg from purchased chocolate | 1998.. | 29 859 | 1 120 594 | 865 521 | 255 073 | 1 |
| | | 1997.. | 32 871 | 1 104 737 | 856 440 | 248 297 | X |
| 31134 | Nonchocolate confectionery mfg | 1998.. | 27 522 | 999 365 | 776 342 | 223 023 | 1 |
| | | 1997.. | 25 512 | 904 681 | 709 389 | 195 292 | X |
| 311340 | Nonchocolate confectionery mfg | 1998.. | 27 522 | 999 365 | 776 342 | 223 023 | 1 |
| | | 1997.. | 25 512 | 904 681 | 709 389 | 195 292 | X |
| 3114 | Fruit & vegetable preserving & specialty food mfg .. | 1998.. | 190 789 | 6 462 402 | 4 983 609 | 1 478 793 | 1 |
| | | 1997.. | 192 801 | 6 419 645 | 4 924 817 | 1 494 828 | X |
| 31141 | Frozen food mfg | 1998.. | 97 054 | 2 963 113 | 2 294 056 | 669 057 | 1 |
| | | 1997.. | 94 959 | 2 867 989 | 2 214 730 | 653 259 | X |
| 311411 | Frozen fruit, juice, & vegetable mfg | 1998.. | 49 668 | 1 439 331 | 1 106 423 | 332 907 | 1 |
| | | 1997.. | 46 900 | 1 393 863 | 1 062 357 | 331 506 | X |
| 311412 | Frozen specialty food mfg | 1998.. | 47 385 | 1 523 783 | 1 187 633 | 336 149 | 1 |
| | | 1997.. | 48 059 | 1 474 126 | 1 152 373 | 321 753 | X |
| 31142 | Fruit & vegetable canning, pickling, & drying | 1998.. | 93 735 | 3 499 289 | 2 689 553 | 809 736 | 1 |
| | | 1997.. | 97 842 | 3 551 656 | 2 710 087 | 841 569 | X |
| 311421 | Fruit & vegetable canning | 1998.. | 64 156 | 2 333 214 | 1 777 296 | 555 917 | 1 |
| | | 1997.. | 64 016 | 2 304 084 | 1 726 293 | 577 791 | X |
| 311422 | Specialty canning | 1998.. | 16 210 | 683 907 | 538 217 | 145 689 | 1 |
| | | 1997.. | 19 211 | 762 517 | 604 171 | 158 346 | X |
| 311423 | Dried & dehydrated food mfg | 1998.. | 13 370 | 482 169 | 374 039 | 108 130 | 1 |
| | | 1997.. | 14 615 | 485 055 | 379 623 | 105 432 | X |
| 3115 | Dairy product mfg | 1998.. | 133 641 | 5 476 474 | 4 229 397 | 1 247 077 | 1 |
| | | 1997.. | 133 127 | 5 400 551 | 4 183 182 | 1 217 369 | X |
| 31151 | Dairy product (except frozen) mfg | 1998.. | 114 412 | 4 717 935 | 3 621 121 | 1 096 814 | 1 |
| | | 1997.. | 113 188 | 4 637 162 | 3 571 119 | 1 066 043 | X |
| 311511 | Fluid milk mfg | 1998.. | 58 540 | 2 527 081 | 1 942 700 | 584 381 | 1 |
| | | 1997.. | 58 276 | 2 499 840 | 1 922 325 | 577 515 | X |
| 311512 | Creamery butter mfg | 1998.. | 1 738 | 69 310 | 57 012 | 12 298 | 10 |
| | | 1997.. | 1 827 | 71 563 | 56 524 | 15 039 | X |
| 311513 | Cheese mfg | 1998.. | 37 141 | 1 317 908 | 1 010 546 | 307 362 | 1 |
| | | 1997.. | 36 943 | 1 312 923 | 1 017 073 | 295 850 | X |
| 311514 | Dry, condensed, & evaporated dairy product mfg | 1998.. | 16 993 | 803 635 | 610 862 | 192 773 | 2 |
| | | 1997.. | 16 142 | 752 836 | 575 197 | 177 639 | X |
| 31152 | Ice cream & frozen dessert mfg | 1998.. | 19 229 | 758 540 | 608 277 | 150 263 | 2 |
| | | 1997.. | 19 939 | 763 389 | 612 063 | 151 326 | X |
| 311520 | Ice cream & frozen dessert mfg | 1998.. | 19 229 | 758 540 | 608 277 | 150 263 | 2 |
| | | 1997.. | 19 939 | 763 389 | 612 063 | 151 326 | X |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|--------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 311 | Food mfg—Con. | | | | | |
| 3116 | Meat product mfg | 1998.. | 467 046 | 12 907 600 | 10 427 411 | 2 480 188 |
| | | 1997.. | 463 313 | 12 286 748 | 9 900 087 | 2 386 661 |
| 31161 | Animal slaughtering & processing | 1998.. | 467 046 | 12 907 600 | 10 427 411 | 2 480 188 |
| | | 1997.. | 463 313 | 12 286 748 | 9 900 087 | 2 386 661 |
| 311611 | Animal (except poultry) slaughtering | 1998.. | 139 430 | 4 092 946 | 3 371 106 | 721 840 |
| | | 1997.. | 142 421 | 3 968 443 | 3 257 763 | 710 680 |
| 311612 | Meat processed from carcasses | 1998.. | 94 885 | 3 271 968 | 2 584 628 | 687 341 |
| | | 1997.. | 88 425 | 2 932 498 | 2 326 054 | 606 444 |
| 311613 | Rendering & meat byproduct processing | 1998.. | 9 641 | 374 538 | 291 043 | 83 496 |
| | | 1997.. | 8 804 | 341 303 | 269 176 | 72 127 |
| 311615 | Poultry processing | 1998.. | 223 090 | 5 168 147 | 4 180 635 | 987 512 |
| | | 1997.. | 223 663 | 5 044 504 | 4 047 094 | 997 410 |
| 3117 | Seafood product preparation & packaging | 1998.. | 42 068 | 1 051 202 | 887 132 | 164 070 |
| | | 1997.. | 41 338 | 1 075 313 | 902 830 | 172 483 |
| 31171 | Seafood product preparation & packaging | 1998.. | 42 068 | 1 051 202 | 887 132 | 164 070 |
| | | 1997.. | 41 338 | 1 075 313 | 902 830 | 172 483 |
| 311711 | Seafood canning | 1998.. | 5 553 | 147 470 | 122 176 | 25 294 |
| | | 1997.. | 5 371 | 149 279 | 121 870 | 27 409 |
| 311712 | Fresh & frozen seafood processing | 1998.. | 36 515 | 903 731 | 764 956 | 138 776 |
| | | 1997.. | 35 967 | 926 034 | 780 960 | 145 074 |
| 3118 | Bakeries & tortilla mfg | 1998.. | 327 405 | 10 443 604 | 8 186 086 | 2 257 518 |
| | | 1997.. | 299 072 | 10 057 765 | 7 832 994 | 2 224 771 |
| 31181 | Bread & bakery product mfg | 1998.. | 252 255 | 7 597 286 | 5 983 649 | 1 613 637 |
| | | 1997.. | 222 958 | 7 157 833 | 5 600 035 | 1 557 798 |
| 311811 | Retail bakeries | 1998.. | 74 784 | 1 198 479 | 938 196 | 260 283 |
| | | 1997.. | 43 658 | 735 792 | 569 005 | 166 787 |
| 311812 | Commercial bakeries | 1998.. | 162 862 | 5 909 783 | 4 660 148 | 1 249 635 |
| | | 1997.. | 164 193 | 5 918 221 | 4 637 526 | 1 280 695 |
| 311813 | Frozen cakes, pies, & other pastries mfg | 1998.. | 14 609 | 489 024 | 385 305 | 103 719 |
| | | 1997.. | 15 107 | 503 820 | 393 504 | 110 316 |
| 31182 | Cookie, cracker, & pasta mfg | 1998.. | 63 715 | 2 565 215 | 1 974 469 | 590 746 |
| | | 1997.. | 64 771 | 2 629 838 | 2 015 380 | 614 458 |
| 311821 | Cookie & cracker mfg | 1998.. | 42 504 | 1 736 566 | 1 320 223 | 416 343 |
| | | 1997.. | 43 019 | 1 776 931 | 1 349 409 | 427 522 |
| 311822 | Flour mixes & dough mfg from purchased flour | 1998.. | 15 470 | 624 995 | 494 558 | 130 438 |
| | | 1997.. | 15 689 | 629 950 | 491 511 | 138 439 |
| 311823 | Dry pasta mfg | 1998.. | 5 741 | 203 654 | 159 688 | 43 966 |
| | | 1997.. | 6 063 | 222 957 | 174 460 | 48 497 |
| 31183 | Tortilla mfg | 1998.. | 11 435 | 281 103 | 227 968 | 53 134 |
| | | 1997.. | 11 343 | 270 094 | 217 579 | 52 515 |
| 311830 | Tortilla mfg | 1998.. | 11 435 | 281 103 | 227 968 | 53 134 |
| | | 1997.. | 11 343 | 270 094 | 217 579 | 52 515 |
| 3119 | Other food mfg | 1998.. | 151 390 | 5 625 424 | 4 459 551 | 1 165 873 |
| | | 1997.. | 149 704 | 5 464 870 | 4 364 425 | 1 100 445 |
| 31191 | Snack food mfg | 1998.. | 47 879 | 1 836 543 | 1 428 861 | 407 683 |
| | | 1997.. | 47 471 | 1 754 979 | 1 388 656 | 366 323 |
| 311911 | Roasted nuts & peanut butter mfg | 1998.. | 10 723 | 384 791 | 296 536 | 88 255 |
| | | 1997.. | 10 493 | 355 465 | 272 890 | 82 575 |
| 311919 | Other snack food mfg | 1998.. | 37 156 | 1 451 753 | 1 132 325 | 319 428 |
| | | 1997.. | 36 978 | 1 399 514 | 1 115 766 | 283 748 |
| 31192 | Coffee & tea mfg | 1998.. | 12 864 | 550 242 | 425 680 | 124 562 |
| | | 1997.. | 12 895 | 577 133 | 445 357 | 131 776 |
| 311920 | Coffee & tea mfg | 1998.. | 12 864 | 550 242 | 425 680 | 124 562 |
| | | 1997.. | 12 895 | 577 133 | 445 357 | 131 776 |
| 31193 | Flavoring syrup & concentrate mfg | 1998.. | 5 854 | 274 436 | 218 162 | 56 274 |
| | | 1997.. | 6 243 | 279 026 | 225 770 | 53 256 |
| 311930 | Flavoring syrup & concentrate mfg | 1998.. | 5 854 | 274 436 | 218 162 | 56 274 |
| | | 1997.. | 6 243 | 279 026 | 225 770 | 53 256 |
| 31194 | Seasoning & dressing mfg | 1998.. | 25 748 | 1 149 348 | 916 661 | 232 687 |
| | | 1997.. | 26 145 | 1 115 842 | 901 252 | 214 590 |
| 311941 | Mayonnaise, dressing, & other prepared sauce mfg | 1998.. | 13 662 | 556 298 | 434 374 | 121 924 |
| | | 1997.. | 13 927 | 556 235 | 443 903 | 112 332 |
| 311942 | Spice & extract mfg | 1998.. | 12 086 | 593 049 | 482 287 | 110 763 |
| | | 1997.. | 12 218 | 559 607 | 457 349 | 102 258 |
| 31199 | All other food mfg | 1998.. | 59 045 | 1 814 855 | 1 470 188 | 344 667 |
| | | 1997.. | 56 950 | 1 737 890 | 1 403 390 | 334 500 |
| 311991 | Perishable prepared food mfg | 1998.. | 21 271 | 585 651 | 490 802 | 94 849 |
| | | 1997.. | 20 796 | 561 806 | 463 757 | 98 049 |
| 311999 | All other miscellaneous food mfg | 1998.. | 37 774 | 1 229 204 | 979 385 | 249 819 |
| | | 1997.. | 36 154 | 1 176 084 | 939 633 | 236 451 |
| 312 | Beverage & tobacco product mfg | 1998.. | 176 465 | 8 941 873 | 6 865 318 | 2 076 555 |
| | | 1997.. | 175 996 | 8 810 878 | 6 746 774 | 2 064 104 |
| 3121 | Beverage mfg | 1998.. | 142 495 | 6 806 754 | 5 325 863 | 1 480 891 |
| | | 1997.. | 142 361 | 6 613 456 | 5 150 414 | 1 463 042 |
| 31211 | Soft drink & ice mfg | 1998.. | 83 387 | 3 446 618 | 2 709 388 | 737 230 |
| | | 1997.. | 83 372 | 3 334 325 | 2 631 398 | 702 927 |
| 312111 | Soft drink mfg | 1998.. | 73 698 | 3 117 998 | 2 443 957 | 674 041 |
| | | 1997.. | 73 449 | 3 024 547 | 2 380 796 | 643 751 |
| 312112 | Bottled water mfg | 1998.. | 4 719 | 182 530 | 144 103 | 38 427 |
| | | 1997.. | 4 661 | 168 324 | 132 426 | 35 898 |
| 312113 | Ice mfg | 1998.. | 4 970 | 146 089 | 121 328 | 24 761 |
| | | 1997.. | 5 262 | 141 454 | 118 176 | 23 278 |
| 31212 | Breweries | 1998.. | 32 177 | 2 104 092 | 1 627 780 | 476 312 |
| | | 1997.. | 34 251 | 2 091 257 | 1 598 573 | 492 684 |
| 312120 | Breweries | 1998.. | 32 177 | 2 104 092 | 1 627 780 | 476 312 |
| | | 1997.. | 34 251 | 2 091 257 | 1 598 573 | 492 684 |
| 312123 | Wineries | 1998.. | 20 435 | 927 897 | 733 246 | 194 651 |
| | | 1997.. | 18 193 | 860 792 | 668 051 | 192 741 |
| 312130 | Wineries | 1998.. | 20 435 | 927 897 | 733 246 | 194 651 |
| | | 1997.. | 18 193 | 860 792 | 668 051 | 192 741 |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|---------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 312 | Beverage & tobacco product mfg—Con. | | | | | |
| 3121 | Beverage mfg—Con. | | | | | |
| 31214 | Distilleries | 1998.. | 6 495 | 328 147 | 255 449 | 72 698 |
| | | 1997.. | 6 545 | 327 082 | 252 392 | 74 690 |
| 312140 | Distilleries | 1998.. | 6 495 | 328 147 | 255 449 | 72 698 |
| | | 1997.. | 6 545 | 327 082 | 252 392 | 74 690 |
| 3122 | Tobacco mfg | 1998.. | 33 970 | 2 135 119 | 1 539 455 | 595 664 |
| | | 1997.. | 33 635 | 2 197 422 | 1 596 360 | 601 062 |
| 31221 | Tobacco stemming & redrying | 1998.. | 5 498 | 164 313 | 130 582 | 33 731 |
| | | 1997.. | 5 085 | 148 746 | 115 795 | 32 951 |
| 312210 | Tobacco stemming & redrying | 1998.. | 5 498 | 164 313 | 130 582 | 33 731 |
| | | 1997.. | 5 085 | 148 746 | 115 795 | 32 951 |
| 31222 | Tobacco product mfg | 1998.. | 28 472 | 1 970 806 | 1 408 873 | 561 933 |
| | | 1997.. | 28 550 | 2 048 676 | 1 480 565 | 568 111 |
| 312221 | Cigarette mfg | 1998.. | 20 553 | 1 631 876 | 1 158 857 | 473 019 |
| | | 1997.. | 21 302 | 1 738 062 | 1 246 557 | 491 505 |
| 312229 | Other tobacco product mfg | 1998.. | 7 919 | 338 930 | 250 016 | 88 914 |
| | | 1997.. | 7 248 | 310 614 | 234 008 | 76 606 |
| 313 | Textile mills | 1998.. | 379 775 | 12 136 580 | 9 898 685 | 2 237 895 |
| | | 1997.. | 393 473 | 12 371 351 | 10 094 773 | 2 276 578 |
| 3131 | Fiber, yarn, & thread mills | 1998.. | 81 277 | 2 354 021 | 1 905 753 | 448 268 |
| | | 1997.. | 83 259 | 2 345 841 | 1 908 390 | 437 451 |
| 31311 | Fiber, yarn, & thread mills | 1998.. | 81 277 | 2 354 021 | 1 905 753 | 448 268 |
| | | 1997.. | 83 259 | 2 345 841 | 1 908 390 | 437 451 |
| 313111 | Yarn spinning mills | 1998.. | 57 820 | 1 648 753 | 1 333 391 | 315 362 |
| | | 1997.. | 59 272 | 1 662 275 | 1 349 616 | 312 659 |
| 313112 | Yarn texturing, throwing, & twisting mills | 1998.. | 19 412 | 591 987 | 483 804 | 108 183 |
| | | 1997.. | 20 256 | 579 078 | 478 414 | 100 664 |
| 313113 | Thread mills | 1998.. | 4 044 | 113 281 | 88 558 | 24 723 |
| | | 1997.. | 3 731 | 104 488 | 80 360 | 24 128 |
| 3132 | Fabric mills | 1998.. | 211 882 | 6 818 571 | 5 589 332 | 1 229 238 |
| | | 1997.. | 217 971 | 6 875 146 | 5 624 530 | 1 250 616 |
| 31321 | Broadwoven fabric mills | 1998.. | 130 041 | 4 175 872 | 3 431 725 | 744 147 |
| | | 1997.. | 132 895 | 4 183 402 | 3 435 719 | 747 683 |
| 313210 | Broadwoven fabric mills | 1998.. | 130 041 | 4 175 872 | 3 431 725 | 744 147 |
| | | 1997.. | 132 895 | 4 183 402 | 3 435 719 | 747 683 |
| 31322 | Narrow fabric mills & Schiffli machine embroidery | 1998.. | 19 922 | 542 988 | 444 495 | 98 493 |
| | | 1997.. | 20 514 | 544 670 | 450 316 | 94 354 |
| 313221 | Narrow fabric mills | 1998.. | 16 155 | 451 470 | 367 543 | 83 927 |
| | | 1997.. | 16 584 | 452 749 | 371 752 | 80 997 |
| 313222 | Schiffli machine embroidery | 1998.. | 3 767 | 91 518 | 76 953 | 14 566 |
| | | 1997.. | 3 930 | 91 921 | 78 564 | 13 357 |
| 31323 | Nonwoven fabric mills | 1998.. | 20 579 | 893 285 | 714 033 | 179 252 |
| | | 1997.. | 21 014 | 880 102 | 689 402 | 190 700 |
| 313230 | Nonwoven fabric mills | 1998.. | 20 579 | 893 285 | 714 033 | 179 252 |
| | | 1997.. | 21 014 | 880 102 | 689 402 | 190 700 |
| 31324 | Knit fabric mills | 1998.. | 41 341 | 1 206 427 | 999 079 | 207 348 |
| | | 1997.. | 43 548 | 1 266 972 | 1 049 093 | 217 879 |
| 313241 | Weft knit fabric mills | 1998.. | 24 446 | 699 289 | 576 693 | 122 596 |
| | | 1997.. | 24 903 | 701 991 | 578 598 | 123 393 |
| 313249 | Other knit fabric & lace mills | 1998.. | 16 895 | 507 138 | 422 386 | 84 752 |
| | | 1997.. | 18 645 | 564 981 | 470 495 | 94 486 |
| 3133 | Textile & fabric finishing & fabric coating mills | 1998.. | 86 616 | 2 963 988 | 2 403 600 | 560 388 |
| | | 1997.. | 92 243 | 3 150 364 | 2 561 853 | 588 511 |
| 31331 | Textile & fabric finishing mills | 1998.. | 75 175 | 2 434 242 | 2 004 459 | 429 782 |
| | | 1997.. | 80 651 | 2 638 846 | 2 174 274 | 464 572 |
| 313311 | Broadwoven fabric finishing mills | 1998.. | 48 190 | 1 590 533 | 1 310 699 | 279 834 |
| | | 1997.. | 51 174 | 1 729 198 | 1 424 561 | 304 637 |
| 313312 | Textile & fabric finishing mills | 1998.. | 26 985 | 843 709 | 693 760 | 149 948 |
| | | 1997.. | 29 477 | 909 648 | 749 713 | 159 935 |
| 31332 | Fabric coating mills | 1998.. | 11 441 | 529 746 | 399 141 | 130 606 |
| | | 1997.. | 11 592 | 511 518 | 387 579 | 123 939 |
| 313320 | Fabric coating mills | 1998.. | 11 441 | 529 746 | 399 141 | 130 606 |
| | | 1997.. | 11 592 | 511 518 | 387 579 | 123 939 |
| 314 | Textile product mills | 1998.. | 232 167 | 6 213 256 | 5 122 666 | 1 090 590 |
| | | 1997.. | 235 489 | 6 160 004 | 5 098 292 | 1 061 712 |
| 3141 | Textile furnishings mills | 1998.. | 126 749 | 3 401 287 | 2 809 522 | 591 765 |
| | | 1997.. | 126 911 | 3 342 780 | 2 769 273 | 573 507 |
| 31411 | Carpet & rug mills | 1998.. | 53 027 | 1 661 073 | 1 364 049 | 297 024 |
| | | 1997.. | 52 238 | 1 603 395 | 1 333 603 | 269 792 |
| 314110 | Carpet & rug mills | 1998.. | 53 027 | 1 661 073 | 1 364 049 | 297 024 |
| | | 1997.. | 52 238 | 1 603 395 | 1 333 603 | 269 792 |
| 31412 | Curtain & linen mills | 1998.. | 73 722 | 1 740 214 | 1 445 472 | 294 741 |
| | | 1997.. | 74 673 | 1 739 385 | 1 435 670 | 303 715 |
| 314121 | Curtain & drapery mills | 1998.. | 27 015 | 603 980 | 498 173 | 105 807 |
| | | 1997.. | 25 508 | 552 191 | 452 819 | 99 372 |
| 314129 | Other household textile product mills | 1998.. | 46 706 | 1 136 233 | 947 299 | 188 934 |
| | | 1997.. | 49 165 | 1 187 194 | 982 851 | 204 343 |
| 3149 | Other textile product mills | 1998.. | 105 418 | 2 811 970 | 2 313 145 | 498 825 |
| | | 1997.. | 108 578 | 2 817 224 | 2 329 019 | 488 205 |
| 31491 | Textile bag & canvas mills | 1998.. | 32 736 | 810 686 | 686 316 | 124 370 |
| | | 1997.. | 32 853 | 795 489 | 669 375 | 126 114 |
| 314911 | Textile bag mills | 1998.. | 13 996 | 304 375 | 256 803 | 47 572 |
| | | 1997.. | 14 104 | 301 926 | 253 946 | 47 980 |
| 314912 | Canvas & related product mills | 1998.. | 18 740 | 506 311 | 429 513 | 76 798 |
| | | 1997.. | 18 749 | 493 563 | 415 429 | 78 134 |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|--------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 314 | Textile product mills—Con. | | | | | |
| 3149 | Other textile product mills—Con. | | | | | |
| 31499 | All other textile product mills | 1998.. | 72 682 | 2 001 284 | 1 626 828 | 374 455 |
| | | 1997.. | 75 725 | 2 021 735 | 1 659 644 | 362 091 |
| 314991 | Rope, cordage, & twine mills..... | 1998.. | 6 310 | 200 149 | 162 137 | 38 012 |
| | | 1997.. | 6 417 | 193 861 | 159 268 | 34 593 |
| 314992 | Tire cord & tire fabric mills | 1998.. | 4 983 | 203 863 | 147 712 | 56 150 |
| | | 1997.. | 5 105 | 206 284 | 153 290 | 52 994 |
| 314999 | All other miscellaneous textile product mills | 1998.. | 61 389 | 1 597 272 | 1 316 979 | 280 293 |
| | | 1997.. | 64 203 | 1 621 590 | 1 347 086 | 274 504 |
| 315 | Apparel mfg | 1998.. | 661 266 | 14 555 932 | 12 144 756 | 2 411 176 |
| | | 1997.. | 718 165 | 15 313 965 | 12 728 242 | 2 585 723 |
| 3151 | Apparel knitting mills..... | 1998.. | 94 052 | 2 270 719 | 1 886 744 | 383 976 |
| | | 1997.. | 105 580 | 2 481 134 | 2 042 388 | 438 746 |
| 31511 | Hosiery & sock mills | 1998.. | 49 170 | 1 165 345 | 978 339 | 187 006 |
| | | 1997.. | 53 222 | 1 201 174 | 995 834 | 205 340 |
| 315111 | Sheer hosiery mills | 1998.. | 15 098 | 369 043 | 306 355 | 62 687 |
| | | 1997.. | 17 579 | 414 978 | 340 090 | 74 888 |
| 315119 | Other hosiery & sock mills | 1998.. | 34 073 | 796 303 | 671 983 | 124 319 |
| | | 1997.. | 35 643 | 786 196 | 655 744 | 130 452 |
| 31519 | Other apparel knitting mills | 1998.. | 44 882 | 1 105 374 | 908 405 | 196 969 |
| | | 1997.. | 52 358 | 1 279 960 | 1 046 554 | 233 406 |
| 315191 | Outerwear knitting mills | 1998.. | 38 216 | 946 326 | 783 122 | 163 205 |
| | | 1997.. | 45 417 | 1 118 626 | 916 152 | 202 474 |
| 315192 | Underwear & nightwear knitting mills..... | 1998.. | 6 666 | 159 048 | 125 283 | 33 765 |
| | | 1997.. | 6 941 | 161 334 | 130 402 | 30 932 |
| 3152 | Cut & sew apparel mfg..... | 1998.. | 512 830 | 11 008 304 | 9 183 123 | 1 825 181 |
| | | 1997.. | 556 776 | 11 531 559 | 9 590 440 | 1 941 119 |
| 31521 | Cut & sew apparel contractors | 1998.. | 164 459 | 2 631 246 | 2 243 991 | 387 256 |
| | | 1997.. | 199 873 | 3 052 296 | 2 602 151 | 450 145 |
| 315211 | Men's & boys' cut & sew apparel contractors .. | 1998.. | 43 274 | 785 213 | 647 039 | 138 173 |
| | | 1997.. | 50 956 | 848 287 | 700 107 | 148 180 |
| 315212 | Women's, girls', & infants' cut & sew apparel contractors .. | 1998.. | 121 185 | 1 846 034 | 1 596 952 | 249 082 |
| | | 1997.. | 148 917 | 2 204 009 | 1 902 044 | 301 965 |
| 31522 | Men's & boys' cut & sew apparel mfg | 1998.. | 166 584 | 3 720 474 | 2 978 738 | 741 736 |
| | | 1997.. | 174 138 | 3 802 489 | 3 032 983 | 769 506 |
| 315221 | Men's & boys' cut & sew underwear & nightwear mfg | 1998.. | 8 003 | 167 928 | 133 894 | 34 033 |
| | | 1997.. | 9 771 | 208 230 | 162 648 | 45 582 |
| 315222 | Men's & boys' cut & sew suit, coat, & overcoat mfg | 1998.. | 21 253 | 557 719 | 439 244 | 118 475 |
| | | 1997.. | 22 310 | 587 251 | 466 734 | 120 517 |
| 315223 | Men's & boys' cut & sew shirt (exc work shirt) mfg | 1998.. | 43 164 | 971 697 | 796 865 | 174 832 |
| | | 1997.. | 48 389 | 1 053 590 | 859 168 | 194 422 |
| 315224 | Men's & boys' cut & sew trouser, slack, & jean mfg | 1998.. | 46 990 | 1 109 705 | 858 099 | 251 606 |
| | | 1997.. | 45 219 | 1 014 857 | 775 607 | 239 250 |
| 315225 | Men's & boys' cut & sew work clothing mfg | 1998.. | 22 950 | 413 850 | 336 270 | 77 579 |
| | | 1997.. | 23 363 | 431 031 | 347 030 | 84 001 |
| 315228 | Men's & boys' cut & sew other outerwear mfg | 1998.. | 24 224 | 499 576 | 414 366 | 85 210 |
| | | 1997.. | 25 086 | 507 530 | 421 796 | 85 734 |
| 31523 | Women's & girls' cut & sew apparel mfg | 1998.. | 157 456 | 4 104 748 | 3 495 153 | 609 595 |
| | | 1997.. | 157 507 | 4 121 444 | 3 488 660 | 632 784 |
| 315231 | Women's & girls' cut/sew lingerie & nightwear mfg | 1998.. | 22 223 | 492 626 | 404 722 | 87 905 |
| | | 1997.. | 24 610 | 514 037 | 423 442 | 90 595 |
| 315232 | Women's & girls' cut & sew blouse & shirt mfg | 1998.. | 29 118 | 809 441 | 704 334 | 105 107 |
| | | 1997.. | 26 178 | 637 148 | 553 543 | 83 605 |
| 315233 | Women's & girls' cut & sew dress mfg | 1998.. | 30 743 | 906 164 | 795 641 | 110 523 |
| | | 1997.. | 29 503 | 840 676 | 736 916 | 103 760 |
| 315234 | Women's & girls' cut & sew suit, coat, skirt mfg | 1998.. | 18 646 | 582 221 | 491 198 | 91 022 |
| | | 1997.. | 20 363 | 632 209 | 530 011 | 102 198 |
| 315239 | Women's & girls' cut & sew other outerwear mfg | 1998.. | 56 726 | 1 314 295 | 1 099 258 | 215 037 |
| | | 1997.. | 56 853 | 1 497 374 | 1 244 748 | 252 626 |
| 31529 | Other cut & sew apparel mfg | 1998.. | 24 331 | 551 835 | 465 241 | 86 594 |
| | | 1997.. | 25 258 | 555 330 | 466 646 | 88 684 |
| 315291 | Infants' cut & sew apparel mfg | 1998.. | 8 903 | 194 281 | 159 054 | 35 227 |
| | | 1997.. | 9 457 | 191 290 | 152 721 | 38 569 |
| 315292 | Fur & leather apparel mfg | 1998.. | 1 714 | 47 277 | 41 939 | 5 338 |
| | | 1997.. | 2 136 | 52 535 | 46 487 | 6 048 |
| 315299 | All other cut & sew apparel mfg | 1998.. | 13 713 | 310 277 | 264 248 | 46 029 |
| | | 1997.. | 13 665 | 311 505 | 267 438 | 44 067 |
| 3159 | Apparel accessories & other apparel mfg | 1998.. | 54 384 | 1 276 909 | 1 074 889 | 202 019 |
| | | 1997.. | 55 809 | 1 301 272 | 1 095 414 | 205 858 |
| 31599 | Apparel accessories & other apparel mfg | 1998.. | 54 384 | 1 276 909 | 1 074 889 | 202 019 |
| | | 1997.. | 55 809 | 1 301 272 | 1 095 414 | 205 858 |
| 315991 | Hat, cap, & millinery mfg | 1998.. | 17 015 | 365 001 | 307 176 | 57 825 |
| | | 1997.. | 17 543 | 366 306 | 307 966 | 58 340 |
| 315992 | Glove & mitten mfg | 1998.. | 5 971 | 139 198 | 116 454 | 22 743 |
| | | 1997.. | 6 526 | 145 499 | 121 217 | 24 282 |
| 315993 | Men's & boys' neckwear mfg | 1998.. | 4 985 | 142 252 | 123 696 | 18 557 |
| | | 1997.. | 4 936 | 134 197 | 117 274 | 16 923 |
| 315999 | Other apparel accessories & other apparel mfg | 1998.. | 26 413 | 630 458 | 527 564 | 102 894 |
| | | 1997.. | 26 804 | 655 270 | 548 957 | 106 313 |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— | |
|------------|------------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|---|
| | | | Total | Payroll | Total fringe benefits | | |
| | | | A | B | C | D | |
| 316 | Leather & allied product mfg | 1998.. | 81 177 | 2 202 862 | 1 807 484 | 395 378 | 1 |
| | | 1997.. | 86 428 | 2 272 499 | 1 863 422 | 409 077 | X |
| 3161 | Leather & hide tanning & finishing | 1998.. | 15 545 | 533 751 | 432 890 | 100 860 | 1 |
| | | 1997.. | 15 317 | 524 004 | 423 993 | 100 011 | X |
| 31611 | Leather & hide tanning & finishing | 1998.. | 15 545 | 533 751 | 432 890 | 100 860 | 1 |
| | | 1997.. | 15 317 | 524 004 | 423 993 | 100 011 | X |
| 316110 | Leather & hide tanning & finishing | 1998.. | 15 545 | 533 751 | 432 890 | 100 860 | 1 |
| | | 1997.. | 15 317 | 524 004 | 423 993 | 100 011 | X |
| 3162 | Footwear mfg..... | 1998.. | 37 683 | 969 798 | 787 647 | 182 151 | 2 |
| | | 1997.. | 42 359 | 1 033 492 | 837 778 | 195 714 | X |
| 31621 | Footwear mfg..... | 1998.. | 37 683 | 969 798 | 787 647 | 182 151 | 2 |
| | | 1997.. | 42 359 | 1 033 492 | 837 778 | 195 714 | X |
| 316211 | Rubber & plastics footwear mfg | 1998.. | 8 198 | 240 441 | 192 220 | 48 221 | 4 |
| | | 1997.. | 8 292 | 211 982 | 168 185 | 43 797 | X |
| 316212 | House slipper mfg | 1998.. | 2 246 | 57 735 | 46 786 | 10 949 | 2 |
| | | 1997.. | 2 501 | 62 808 | 51 471 | 11 337 | X |
| 316213 | Men's footwear (except athletic) mfg | 1998.. | 15 073 | 396 562 | 318 261 | 78 301 | 5 |
| | | 1997.. | 17 797 | 467 290 | 378 083 | 89 207 | X |
| 316214 | Women's footwear (except athletic) mfg | 1998.. | 9 370 | 210 716 | 179 913 | 30 803 | 2 |
| | | 1997.. | 10 442 | 218 868 | 183 020 | 35 848 | X |
| 316219 | Other footwear mfg..... | 1998.. | 2 796 | 64 343 | 50 467 | 13 876 | 4 |
| | | 1997.. | 3 327 | 72 544 | 57 019 | 15 525 | X |
| 3169 | Other leather & allied product mfg | 1998.. | 27 949 | 699 313 | 586 947 | 112 367 | 1 |
| | | 1997.. | 28 752 | 715 003 | 601 651 | 113 352 | X |
| 31699 | Other leather & allied product mfg | 1998.. | 27 949 | 699 313 | 586 947 | 112 367 | 1 |
| | | 1997.. | 28 752 | 715 003 | 601 651 | 113 352 | X |
| 316991 | Luggage mfg | 1998.. | 9 380 | 259 327 | 215 414 | 43 913 | 2 |
| | | 1997.. | 9 655 | 267 330 | 221 927 | 45 403 | X |
| 316992 | Women's handbag & purse mfg | 1998.. | 3 775 | 93 960 | 83 624 | 10 336 | 2 |
| | | 1997.. | 3 783 | 111 141 | 97 341 | 13 800 | X |
| 316993 | Personal leather good (except women's handbag & purse) mfg | 1998.. | 4 948 | 117 893 | 98 352 | 19 542 | 3 |
| | | 1997.. | 4 950 | 108 569 | 92 068 | 16 501 | X |
| 316999 | All other leather good mfg | 1998.. | 9 846 | 228 133 | 189 557 | 38 575 | 1 |
| | | 1997.. | 10 364 | 227 963 | 190 315 | 37 648 | X |
| 321 | Wood product mfg | 1998.. | 586 390 | 18 839 527 | 15 308 325 | 3 531 203 | 1 |
| | | 1997.. | 573 616 | 17 804 313 | 14 406 091 | 3 398 222 | X |
| 3211 | Sawmills & wood preservation | 1998.. | 132 594 | 4 492 634 | 3 580 154 | 912 480 | 1 |
| | | 1997.. | 131 016 | 4 379 397 | 3 480 579 | 898 818 | X |
| 32111 | Sawmills & wood preservation | 1998.. | 132 594 | 4 492 634 | 3 580 154 | 912 480 | 1 |
| | | 1997.. | 131 016 | 4 379 397 | 3 480 579 | 898 818 | X |
| 321113 | Sawmills | 1998.. | 120 369 | 4 113 849 | 3 271 518 | 842 330 | 1 |
| | | 1997.. | 119 348 | 4 014 253 | 3 182 456 | 831 797 | X |
| 321114 | Wood preservation | 1998.. | 12 225 | 378 786 | 308 636 | 70 150 | 3 |
| | | 1997.. | 11 668 | 365 144 | 298 123 | 67 021 | X |
| 3212 | Veneer, plywood, & engineered wood product mfg | 1998.. | 114 968 | 4 205 556 | 3 365 653 | 839 903 | 1 |
| | | 1997.. | 114 165 | 4 001 248 | 3 187 249 | 813 999 | X |
| 32121 | Veneer, plywood, & engineered wood product mfg | 1998.. | 114 968 | 4 205 556 | 3 365 653 | 839 903 | 1 |
| | | 1997.. | 114 165 | 4 001 248 | 3 187 249 | 813 999 | X |
| 321211 | Hardwood veneer & plywood mfg | 1998.. | 21 972 | 691 239 | 558 867 | 132 372 | 2 |
| | | 1997.. | 22 225 | 652 094 | 527 527 | 124 567 | X |
| 321212 | Softwood veneer & plywood mfg | 1998.. | 27 941 | 1 152 248 | 905 232 | 247 016 | 1 |
| | | 1997.. | 28 678 | 1 162 596 | 907 126 | 255 470 | X |
| 321213 | Engineered wood member (except truss) mfg | 1998.. | 5 811 | 225 156 | 173 489 | 51 667 | 1 |
| | | 1997.. | 5 372 | 197 980 | 154 564 | 43 416 | X |
| 321214 | Truss mfg | 1998.. | 34 525 | 1 098 409 | 918 374 | 180 034 | 3 |
| | | 1997.. | 32 617 | 961 085 | 799 510 | 161 575 | X |
| 321219 | Reconstituted wood product mfg | 1998.. | 24 719 | 1 038 504 | 809 691 | 228 813 | 1 |
| | | 1997.. | 25 273 | 1 027 493 | 798 522 | 228 971 | X |
| 3219 | Other wood product mfg | 1998.. | 338 827 | 10 141 337 | 8 362 517 | 1 778 820 | 1 |
| | | 1997.. | 328 435 | 9 423 668 | 7 738 263 | 1 685 405 | X |
| 32191 | Millwork..... | 1998.. | 146 134 | 4 570 234 | 3 723 780 | 846 453 | 1 |
| | | 1997.. | 142 426 | 4 296 069 | 3 483 157 | 812 912 | X |
| 321911 | Wood window & door mfg | 1998.. | 67 136 | 2 293 580 | 1 887 687 | 405 893 | 1 |
| | | 1997.. | 64 650 | 2 125 948 | 1 729 869 | 396 079 | X |
| 321912 | Cut stock, resawing lumber, & planing | 1998.. | 39 975 | 1 158 635 | 925 022 | 233 613 | 4 |
| | | 1997.. | 39 740 | 1 105 571 | 887 954 | 217 617 | X |
| 321918 | Other millwork (including flooring) | 1998.. | 39 022 | 1 118 019 | 911 071 | 206 947 | 1 |
| | | 1997.. | 38 036 | 1 064 550 | 865 334 | 199 216 | X |
| 32192 | Wood container & pallet mfg | 1998.. | 52 835 | 1 221 151 | 975 479 | 176 844 | 1 |
| | | 1997.. | 51 403 | 1 152 323 | 1 037 888 | 183 264 | X |
| 321920 | Wood container & pallet mfg | 1998.. | 52 835 | 1 221 151 | 975 479 | 176 844 | 1 |
| | | 1997.. | 51 403 | 1 152 323 | 1 037 888 | 183 264 | X |
| 32199 | All other wood product mfg | 1998.. | 139 859 | 4 349 952 | 3 600 849 | 749 103 | 1 |
| | | 1997.. | 134 606 | 3 975 276 | 3 279 627 | 695 649 | X |
| 321991 | Manufactured home (mobile home) mfg | 1998.. | 71 576 | 2 414 332 | 2 014 339 | 399 994 | 1 |
| | | 1997.. | 67 847 | 2 143 622 | 1 781 359 | 362 263 | X |
| 321992 | Prefabricated wood building mfg | 1998.. | 23 423 | 744 761 | 614 151 | 130 610 | 3 |
| | | 1997.. | 23 010 | 702 324 | 582 740 | 119 584 | X |
| 321999 | All other miscellaneous wood product mfg | 1998.. | 44 859 | 1 190 859 | 972 360 | 218 500 | 1 |
| | | 1997.. | 43 749 | 1 129 330 | 915 528 | 213 802 | X |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— | |
|------------|---------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|---|
| | | | Total | Payroll | Total fringe benefits | | |
| | | All employees | A | B | C | D | |
| 322 | Paper mfg..... | 1998.. | 576 114 | 28 473 104 | 22 656 607 | 5 816 497 | 1 |
| | | 1997.. | 576 135 | 28 085 840 | 22 391 604 | 5 694 236 | X |
| 3221 | Pulp, paper, & paperboard mills | 1998.. | 193 421 | 12 307 350 | 9 700 868 | 2 606 483 | 1 |
| 32211 | Pulp mills | 1998.. | 200 027 | 12 462 114 | 9 947 106 | 2 515 008 | X |
| 322110 | Pulp mills | 1998.. | 9 891 | 672 262 | 524 538 | 147 724 | X |
| 322110 | Pulp mills | 1997.. | 10 247 | 666 265 | 524 213 | 142 052 | X |
| 32212 | Paper mills | 1998.. | 9 891 | 672 262 | 524 538 | 147 724 | 1 |
| 32212 | Paper mills | 1997.. | 10 247 | 666 265 | 524 213 | 142 052 | X |
| 322121 | Paper (except newsprint) mills | 1998.. | 129 888 | 8 250 804 | 6 470 243 | 1 780 561 | 2 |
| 322121 | Paper (except newsprint) mills | 1997.. | 135 356 | 8 471 769 | 6 759 929 | 1 711 840 | X |
| 322122 | Newsprint mills | 1998.. | 117 183 | 7 343 531 | 5 765 217 | 1 578 314 | 2 |
| 322122 | Newsprint mills | 1997.. | 122 306 | 7 569 671 | 6 041 365 | 1 528 306 | X |
| 32213 | Paperboard mills | 1998.. | 12 705 | 907 273 | 705 026 | 202 247 | 1 |
| 32213 | Paperboard mills | 1997.. | 13 050 | 902 098 | 718 564 | 183 534 | X |
| 322130 | Paperboard mills | 1998.. | 53 642 | 3 384 284 | 2 706 086 | 678 197 | 1 |
| 322130 | Paperboard mills | 1997.. | 54 424 | 3 324 080 | 2 662 964 | 661 116 | X |
| 3222 | Converted paper product mfg | 1998.. | 53 642 | 3 384 284 | 2 706 086 | 678 197 | 1 |
| 3222 | Converted paper product mfg | 1997.. | 54 424 | 3 324 080 | 2 662 964 | 661 116 | X |
| 32221 | Paperboard container mfg | 1998.. | 382 692 | 16 165 754 | 12 955 739 | 3 210 014 | 1 |
| 32221 | Paperboard container mfg | 1997.. | 376 108 | 15 623 726 | 12 444 498 | 3 179 228 | X |
| 322211 | Corrugated & solid fiber box mfg | 1998.. | 213 453 | 9 095 213 | 7 308 960 | 1 786 254 | 1 |
| 322211 | Corrugated & solid fiber box mfg | 1997.. | 208 541 | 8 771 509 | 6 980 549 | 1 790 960 | X |
| 322212 | Folding paperboard box mfg | 1998.. | 129 976 | 5 572 108 | 4 495 242 | 1 076 866 | 2 |
| 322212 | Folding paperboard box mfg | 1997.. | 124 916 | 5 326 019 | 4 270 844 | 1 055 175 | X |
| 322213 | Setup paperboard box mfg | 1998.. | 51 571 | 2 298 316 | 1 825 818 | 472 498 | 2 |
| 322213 | Setup paperboard box mfg | 1997.. | 51 046 | 2 255 397 | 1 765 836 | 489 561 | X |
| 322214 | Fiber can, tube, drum, & similar products mfg .. | 1998.. | 6 194 | 175 868 | 146 095 | 29 773 | X |
| 322214 | Fiber can, tube, drum, & similar products mfg .. | 1997.. | 11 261 | 472 899 | 374 719 | 98 180 | 1 |
| 322215 | Nonfolding sanitary food container mfg | 1998.. | 11 461 | 450 287 | 354 514 | 95 773 | X |
| 322215 | Nonfolding sanitary food container mfg | 1997.. | 14 851 | 555 636 | 451 284 | 104 352 | 7 |
| 32222 | Paper bag & coated & treated paper mfg | 1998.. | 14 924 | 563 938 | 443 260 | 120 678 | X |
| 32222 | Paper bag & coated & treated paper mfg | 1997.. | 76 779 | 3 477 831 | 2 758 838 | 718 993 | 1 |
| 322221 | Coated & laminated packaging paper & plastics film mfg..... | 1998.. | 75 697 | 3 370 951 | 2 652 600 | 718 351 | X |
| 322221 | Coated & laminated packaging paper & plastics film mfg..... | 1997.. | 5 005 | 223 154 | 176 357 | 46 797 | 4 |
| 322222 | Coated & laminated paper mfg | 1998.. | 5 416 | 233 924 | 184 801 | 49 123 | X |
| 322222 | Coated & laminated paper mfg | 1997.. | 42 994 | 2 075 472 | 1 656 756 | 418 716 | 1 |
| 322223 | Plastics, foil, & coated paper bag mfg | 1998.. | 41 771 | 1 968 132 | 1 559 509 | 408 623 | X |
| 322224 | Uncoated paper & multiwall bag mfg | 1998.. | 3 137 | 120 078 | 96 650 | 23 428 | 1 |
| 322224 | Uncoated paper & multiwall bag mfg | 1997.. | 3 005 | 120 457 | 94 736 | 25 721 | X |
| 322225 | Laminated aluminum foil mfg for flexible packaging uses | 1998.. | 17 535 | 629 184 | 497 915 | 131 269 | 1 |
| 322225 | Laminated aluminum foil mfg for flexible packaging uses | 1997.. | 17 244 | 606 175 | 475 935 | 130 240 | X |
| 322226 | Surface-coated paperboard mfg | 1998.. | 4 828 | 275 859 | 207 621 | 68 238 | 2 |
| 322226 | Surface-coated paperboard mfg | 1997.. | 4 967 | 286 625 | 211 497 | 75 128 | X |
| 322227 | Stationery product mfg | 1998.. | 3 280 | 154 085 | 123 539 | 30 546 | 1 |
| 322227 | Stationery product mfg | 1997.. | 3 294 | 155 638 | 126 122 | 29 516 | X |
| 322228 | Stationery, tablet, & related product mfg | 1998.. | 48 492 | 1 718 048 | 1 386 689 | 331 360 | 2 |
| 322228 | Stationery, tablet, & related product mfg | 1997.. | 47 825 | 1 701 539 | 1 379 650 | 321 889 | X |
| 322231 | Die-cut paper & paperboard office supplies mfg | 1998.. | 13 410 | 444 829 | 355 663 | 89 165 | 2 |
| 322231 | Die-cut paper & paperboard office supplies mfg | 1997.. | 12 792 | 432 833 | 345 586 | 87 247 | X |
| 322232 | Envelope mfg | 1998.. | 26 412 | 1 003 566 | 811 895 | 191 671 | 4 |
| 322232 | Envelope mfg | 1997.. | 25 867 | 977 281 | 794 390 | 182 891 | X |
| 322233 | Stationery, tablet, & related product mfg | 1998.. | 8 670 | 269 654 | 219 131 | 50 523 | 3 |
| 322233 | Stationery, tablet, & related product mfg | 1997.. | 9 166 | 291 425 | 239 674 | 51 751 | X |
| 322234 | Other converted paper product mfg | 1998.. | 43 969 | 1 874 661 | 1 501 253 | 373 408 | 1 |
| 322234 | Other converted paper product mfg | 1997.. | 44 045 | 1 779 727 | 1 431 699 | 348 028 | X |
| 322235 | Sanitary paper product mfg | 1998.. | 20 806 | 1 030 127 | 814 334 | 215 793 | 1 |
| 322235 | Sanitary paper product mfg | 1997.. | 20 191 | 928 531 | 743 100 | 185 431 | X |
| 322239 | All other converted paper product mfg | 1998.. | 23 163 | 844 533 | 686 919 | 157 614 | 2 |
| 322239 | All other converted paper product mfg | 1997.. | 23 854 | 851 196 | 688 599 | 162 597 | X |
| 323 | Printing & related support activities | 1998.. | 848 854 | 32 208 764 | 26 994 982 | 5 213 781 | 1 |
| 323 | Printing & related support activities | 1997.. | 838 625 | 31 236 630 | 26 102 047 | 5 134 583 | X |
| 3231 | Printing & related support activities | 1998.. | 848 854 | 32 208 764 | 26 994 982 | 5 213 791 | 1 |
| 32311 | Printing | 1998.. | 838 625 | 31 236 630 | 26 102 047 | 5 134 583 | X |
| 323110 | Commercial lithographic printing | 1998.. | 765 750 | 28 842 315 | 24 127 152 | 4 715 163 | 1 |
| 323110 | Commercial lithographic printing | 1997.. | 754 549 | 27 945 525 | 23 312 440 | 4 633 085 | X |
| 323111 | Commercial gravure printing | 1998.. | 425 487 | 17 040 498 | 14 399 805 | 2 640 693 | 1 |
| 323111 | Commercial gravure printing | 1997.. | 415 080 | 16 295 479 | 13 711 203 | 2 584 276 | X |
| 323112 | Commercial flexographic printing | 1998.. | 22 615 | 1 037 289 | 836 583 | 200 706 | 1 |
| 323112 | Commercial flexographic printing | 1997.. | 23 260 | 998 404 | 804 827 | 193 577 | X |
| 323113 | Commercial screen printing | 1998.. | 30 443 | 1 269 233 | 1 056 794 | 212 439 | 1 |
| 323113 | Commercial screen printing | 1997.. | 30 600 | 1 245 389 | 1 033 011 | 212 378 | X |
| 323114 | Quick printing | 1998.. | 71 024 | 2 052 775 | 1 715 639 | 337 136 | 2 |
| 323114 | Quick printing | 1997.. | 72 614 | 2 072 400 | 1 732 350 | 340 050 | X |
| 323115 | Digital printing | 1998.. | 53 663 | 1 553 859 | 1 317 493 | 236 366 | 1 |
| 323115 | Digital printing | 1997.. | 52 507 | 1 489 496 | 1 260 997 | 228 499 | X |
| 323116 | Manifold business form printing | 1998.. | 4 498 | 153 162 | 128 719 | 24 443 | 3 |
| 323116 | Manifold business form printing | 1997.. | 4 201 | 146 103 | 122 919 | 23 184 | X |
| 323117 | Book printing | 1998.. | 55 574 | 2 078 267 | 1 668 490 | 412 777 | 4 |
| 323117 | Book printing | 1997.. | 56 431 | 2 096 764 | 1 692 282 | 404 482 | X |
| 323118 | Blankbook, looseleaf binder, & device mfg | 1998.. | 49 584 | 1 905 993 | 1 551 880 | 354 113 | 1 |
| 323118 | Blankbook, looseleaf binder, & device mfg | 1997.. | 49 044 | 1 873 421 | 1 530 472 | 342 949 | X |
| 323119 | Other commercial printing | 1998.. | 17 791 | 656 137 | 532 077 | 124 060 | 2 |
| 323119 | Other commercial printing | 1997.. | 17 798 | 638 101 | 509 339 | 128 762 | X |
| 323120 | Support activities for printing | 1998.. | 35 069 | 1 095 103 | 922 672 | 172 431 | 3 |
| 323120 | Support activities for printing | 1997.. | 33 014 | 1 089 968 | 915 040 | 174 928 | X |
| 323121 | Tradebinding & related work | 1998.. | 83 105 | 3 366 449 | 2 867 830 | 498 619 | 2 |
| 323121 | Tradebinding & related work | 1997.. | 84 076 | 3 291 105 | 2 789 607 | 501 498 | X |
| 323122 | Prepress services | 1998.. | 31 676 | 950 638 | 814 417 | 136 221 | 1 |
| 323122 | Prepress services | 1997.. | 31 436 | 898 114 | 764 672 | 133 442 | X |
| 323122 | Prepress services | 1998.. | 51 429 | 2 415 811 | 2 053 413 | 362 398 | 3 |
| 323122 | Prepress services | 1997.. | 52 640 | 2 392 991 | 2 024 935 | 368 056 | X |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|--------------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | | A | B | C | D |
| 324 | Petroleum & coal products mfg | 1998.. | 107 632 | 7 232 549 | 5 686 197 | 1 546 352 |
| | | 1997.. | 107 811 | 7 131 911 | 5 551 371 | 1 580 540 |
| 3241 | Petroleum & coal products mfg | 1998.. | 107 632 | 7 232 549 | 5 686 197 | 1 546 352 |
| | | 1997.. | 107 811 | 7 131 911 | 5 551 371 | 1 580 540 |
| 32411 | Petroleum refineries | 1998.. | 64 806 | 5 083 300 | 3 963 664 | 1 119 637 |
| | | 1997.. | 65 448 | 5 035 389 | 3 884 869 | 1 150 520 |
| 324110 | Petroleum refineries | 1998.. | 64 806 | 5 083 300 | 3 963 664 | 1 119 637 |
| | | 1997.. | 65 448 | 5 035 389 | 3 884 869 | 1 150 520 |
| 32412 | Asphalt paving, roofing, & saturated materials mfg | 1998.. | 27 596 | 1 366 023 | 1 099 538 | 266 484 |
| | | 1997.. | 27 437 | 1 324 714 | 1 063 946 | 260 768 |
| 324121 | Asphalt paving mixture & block mfg | 1998.. | 14 294 | 712 181 | 576 856 | 135 325 |
| | | 1997.. | 14 082 | 700 357 | 564 619 | 135 738 |
| 324122 | Asphalt shingle & coating materials mfg | 1998.. | 13 302 | 653 842 | 522 682 | 131 159 |
| | | 1997.. | 13 355 | 624 357 | 499 327 | 125 030 |
| 32419 | Other petroleum & coal products mfg | 1998.. | 15 231 | 783 226 | 622 995 | 160 231 |
| | | 1997.. | 14 926 | 771 808 | 602 556 | 169 252 |
| 324191 | Petroleum lubricating oil & grease mfg | 1998.. | 11 677 | 591 132 | 477 110 | 114 022 |
| | | 1997.. | 11 292 | 563 405 | 449 968 | 113 437 |
| 324199 | All other petroleum & coal products mfg | 1998.. | 3 554 | 192 094 | 145 885 | 46 208 |
| | | 1997.. | 3 634 | 208 403 | 152 588 | 55 815 |
| 325 | Chemical mfg..... | 1998.. | 898 429 | 52 490 361 | 41 663 525 | 10 826 836 |
| | | 1997.. | 886 271 | 50 501 755 | 39 984 709 | 10 517 046 |
| 3251 | Basic chemical mfg..... | 1998.. | 201 520 | 13 327 501 | 10 478 589 | 2 848 913 |
| | | 1997.. | 200 978 | 13 109 843 | 10 306 972 | 2 802 871 |
| 32511 | Petrochemical mfg | 1998.. | 10 399 | 821 186 | 635 689 | 185 497 |
| | | 1997.. | 10 192 | 813 832 | 620 132 | 193 700 |
| 325110 | Petrochemical mfg | 1998.. | 10 399 | 821 186 | 635 689 | 185 497 |
| | | 1997.. | 10 192 | 813 832 | 620 132 | 193 700 |
| 32512 | Industrial gas mfg | 1998.. | 12 590 | 748 630 | 582 247 | 166 383 |
| | | 1997.. | 12 635 | 745 988 | 579 835 | 166 153 |
| 325120 | Industrial gas mfg | 1998.. | 12 590 | 748 630 | 582 247 | 166 383 |
| | | 1997.. | 12 635 | 745 988 | 579 835 | 166 153 |
| 32513 | Dye & pigment mfg | 1998.. | 17 012 | 993 543 | 782 260 | 211 283 |
| | | 1997.. | 17 317 | 1 000 838 | 782 734 | 218 104 |
| 325131 | Inorganic dye & pigment mfg | 1998.. | 8 531 | 510 297 | 401 664 | 108 634 |
| | | 1997.. | 8 636 | 505 728 | 394 913 | 110 815 |
| 325132 | Synthetic organic dye & pigment mfg | 1998.. | 8 481 | 483 245 | 380 596 | 102 649 |
| | | 1997.. | 8 681 | 495 110 | 387 821 | 107 289 |
| 32518 | Other basic inorganic chemical mfg..... | 1998.. | 59 989 | 3 896 059 | 3 058 816 | 836 243 |
| | | 1997.. | 60 174 | 3 785 077 | 2 976 437 | 808 640 |
| 325181 | Alkalies & chlorine mfg | 1998.. | 4 899 | 349 193 | 279 018 | 70 175 |
| | | 1997.. | 4 859 | 339 677 | 272 779 | 66 898 |
| 325182 | Carbon black mfg | 1998.. | 1 732 | 119 927 | 93 012 | 26 915 |
| | | 1997.. | 1 769 | 117 458 | 90 694 | 26 764 |
| 325188 | All other basic inorganic chemical mfg | 1998.. | 53 358 | 3 426 939 | 2 687 786 | 739 153 |
| | | 1997.. | 53 546 | 3 327 942 | 2 612 964 | 714 978 |
| 32519 | Other basic organic chemical mfg | 1998.. | 101 529 | 6 868 083 | 5 418 577 | 1 449 507 |
| | | 1997.. | 100 660 | 6 764 108 | 5 347 834 | 1 416 274 |
| 325191 | Gum & wood chemical mfg | 1998.. | 2 494 | 115 653 | 94 120 | 21 534 |
| | | 1997.. | 2 267 | 104 928 | 84 353 | 20 575 |
| 325192 | Cyclic crude & intermediate mfg | 1998.. | 8 706 | 617 054 | 474 851 | 142 203 |
| | | 1997.. | 8 641 | 605 172 | 467 132 | 138 040 |
| 325193 | Ethyl alcohol mfg..... | 1998.. | 1 566 | 79 165 | 61 003 | 18 162 |
| | | 1997.. | 1 527 | 75 750 | 59 291 | 16 459 |
| 325199 | All other basic organic chemical mfg | 1998.. | 88 763 | 6 056 211 | 4 788 603 | 1 267 608 |
| | | 1997.. | 88 225 | 5 978 258 | 4 737 058 | 1 241 200 |
| 3252 | Resin, syn rubber, & artificial & syn fibers & filaments mfg | 1998.. | 114 802 | 7 190 691 | 5 530 805 | 1 659 886 |
| | | 1997.. | 115 660 | 7 028 905 | 5 397 484 | 1 631 421 |
| 32521 | Resin & synthetic rubber mfg | 1998.. | 73 800 | 5 034 822 | 3 902 051 | 1 132 772 |
| | | 1997.. | 73 773 | 4 902 846 | 3 788 443 | 1 114 403 |
| 325211 | Plastics material & resin mfg..... | 1998.. | 62 919 | 4 254 235 | 3 306 037 | 948 198 |
| | | 1997.. | 61 632 | 4 068 330 | 3 160 542 | 907 788 |
| 325212 | Synthetic rubber mfg | 1998.. | 10 881 | 780 587 | 596 014 | 184 573 |
| | | 1997.. | 12 141 | 834 516 | 627 901 | 206 615 |
| 32522 | Artificial & synthetic fibers & filaments mfg | 1998.. | 41 002 | 2 155 869 | 1 628 754 | 527 115 |
| | | 1997.. | 41 887 | 2 126 059 | 1 609 041 | 517 018 |
| 325221 | Cellulosic organic fiber mfg | 1998.. | 4 055 | 198 848 | 147 082 | 51 766 |
| | | 1997.. | 4 802 | 236 905 | 174 879 | 62 026 |
| 325222 | Noncellulosic organic fiber mfg | 1998.. | 36 947 | 1 957 021 | 1 481 672 | 475 349 |
| | | 1997.. | 37 085 | 1 889 154 | 1 434 162 | 454 992 |
| 3253 | Pesticide, fertilizer, & other agricultural chemical mfg | 1998.. | 37 306 | 1 958 490 | 1 558 660 | 399 830 |
| | | 1997.. | 37 206 | 1 906 496 | 1 518 839 | 387 657 |
| 32531 | Fertilizer mfg | 1998.. | 23 014 | 1 137 623 | 912 061 | 225 562 |
| | | 1997.. | 23 212 | 1 094 729 | 883 219 | 211 510 |
| 325311 | Nitrogenous fertilizer mfg | 1998.. | 5 335 | 367 929 | 301 062 | 66 868 |
| | | 1997.. | 5 811 | 346 127 | 286 132 | 59 995 |
| 325312 | Phosphatic fertilizer mfg | 1998.. | 8 294 | 463 662 | 359 560 | 104 102 |
| | | 1997.. | 8 559 | 459 604 | 360 599 | 99 005 |
| 325314 | Fertilizer (mixing only) mfg | 1998.. | 9 384 | 306 032 | 251 439 | 54 593 |
| | | 1997.. | 8 842 | 288 998 | 236 498 | 52 510 |
| 32532 | Pesticide & other agricultural chemical mfg | 1998.. | 14 293 | 820 867 | 646 599 | 174 268 |
| | | 1997.. | 13 994 | 811 767 | 635 620 | 176 147 |
| 325320 | Pesticide & other agricultural chemical mfg | 1998.. | 14 293 | 820 867 | 646 599 | 174 268 |
| | | 1997.. | 13 994 | 811 767 | 635 620 | 176 147 |

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| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|--------------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | | A | B | C | D |
| 325 | Chemical mfg—Con. | | | | | |
| 3254 | Pharmaceutical & medicine mfg | 1998.. | 213 882 | 13 878 058 | 11 246 557 | 2 631 501 |
| | | 1997.. | 205 448 | 12 738 874 | 10 222 069 | 2 516 805 |
| 32541 | Pharmaceutical & medicine mfg | 1998.. | 213 882 | 13 878 058 | 11 246 557 | 2 631 501 |
| | | 1997.. | 205 448 | 12 738 874 | 10 222 069 | 2 516 805 |
| 325411 | Medicinal & botanical mfg | 1998.. | 30 024 | 2 128 015 | 1 728 584 | 399 431 |
| | | 1997.. | 27 764 | 1 881 055 | 1 530 029 | 351 026 |
| 325412 | Pharmaceutical preparation mfg | 1998.. | 118 286 | 7 537 487 | 6 103 613 | 1 433 875 |
| | | 1997.. | 115 286 | 6 980 840 | 5 591 463 | 1 389 377 |
| 325413 | In-vitro diagnostic substance mfg | 1998.. | 41 129 | 2 847 440 | 2 307 464 | 539 977 |
| | | 1997.. | 39 099 | 2 595 603 | 2 080 123 | 515 480 |
| 325414 | Biological product (except diagnostic) mfg | 1998.. | 24 442 | 1 365 116 | 1 106 897 | 258 218 |
| | | 1997.. | 23 299 | 1 281 376 | 1 020 454 | 260 922 |
| 3255 | Paint, coating, & adhesive mfg | 1998.. | 76 782 | 3 728 966 | 2 963 812 | 765 153 |
| | | 1997.. | 75 100 | 3 673 360 | 2 922 234 | 751 126 |
| 32551 | Paint & coating mfg | 1998.. | 54 539 | 2 631 429 | 2 101 317 | 530 112 |
| | | 1997.. | 53 152 | 2 609 849 | 2 083 746 | 526 103 |
| 325510 | Paint & coating mfg | 1998.. | 54 539 | 2 631 429 | 2 101 317 | 530 112 |
| | | 1997.. | 53 152 | 2 609 849 | 2 083 746 | 526 103 |
| 32552 | Adhesive mfg | 1998.. | 22 244 | 1 097 537 | 862 496 | 235 041 |
| | | 1997.. | 21 948 | 1 063 511 | 838 488 | 225 023 |
| 325520 | Adhesive mfg | 1998.. | 22 244 | 1 097 537 | 862 496 | 235 041 |
| | | 1997.. | 21 948 | 1 063 511 | 838 488 | 225 023 |
| 3256 | Soap, cleaning compound, & toilet preparation mfg | 1998.. | 131 999 | 6 027 027 | 4 780 342 | 1 246 685 |
| | | 1997.. | 126 948 | 5 757 416 | 4 585 760 | 1 171 656 |
| 32561 | Soap & cleaning compound mfg | 1998.. | 64 500 | 3 165 740 | 2 520 104 | 645 636 |
| | | 1997.. | 62 614 | 3 086 003 | 2 458 650 | 627 353 |
| 325611 | Soap & other detergent mfg | 1998.. | 30 952 | 1 611 265 | 1 272 256 | 339 010 |
| | | 1997.. | 31 158 | 1 607 560 | 1 271 545 | 336 015 |
| 325612 | Polish & other sanitation good mfg | 1998.. | 24 063 | 951 341 | 767 704 | 183 637 |
| | | 1997.. | 21 985 | 896 799 | 724 411 | 172 388 |
| 325613 | Surface active agent mfg | 1998.. | 9 485 | 603 134 | 480 144 | 122 989 |
| | | 1997.. | 9 471 | 581 644 | 462 694 | 118 950 |
| 32562 | Toilet preparation mfg | 1998.. | 67 498 | 2 861 287 | 2 260 238 | 601 049 |
| | | 1997.. | 64 334 | 2 671 413 | 2 127 110 | 544 303 |
| 325620 | Toilet preparation mfg | 1998.. | 67 498 | 2 861 287 | 2 260 238 | 601 049 |
| | | 1997.. | 64 334 | 2 671 413 | 2 127 110 | 544 303 |
| 3259 | Other chemical product mfg | 1998.. | 122 138 | 6 379 628 | 5 104 760 | 1 274 868 |
| | | 1997.. | 124 931 | 6 286 861 | 5 031 351 | 1 255 510 |
| 32591 | Printing ink mfg | 1998.. | 13 488 | 675 903 | 544 548 | 131 356 |
| | | 1997.. | 13 218 | 640 165 | 510 631 | 129 534 |
| 325910 | Printing ink mfg | 1998.. | 13 488 | 675 903 | 544 548 | 131 356 |
| | | 1997.. | 13 218 | 640 165 | 510 631 | 129 534 |
| 32592 | Explosives mfg | 1998.. | 8 410 | 383 547 | 296 903 | 86 643 |
| | | 1997.. | 8 972 | 407 441 | 312 301 | 95 140 |
| 325920 | Explosives mfg | 1998.. | 8 410 | 383 547 | 296 903 | 86 643 |
| | | 1997.. | 8 972 | 407 441 | 312 301 | 95 140 |
| 32599 | All other chemical product & preparation mfg | 1998.. | 100 240 | 5 320 178 | 4 263 309 | 1 056 869 |
| | | 1997.. | 102 741 | 5 239 255 | 4 208 419 | 1 030 836 |
| 325991 | Custom compounding of purchased resin | 1998.. | 27 584 | 1 252 755 | 993 727 | 259 027 |
| | | 1997.. | 27 776 | 1 205 359 | 957 095 | 248 264 |
| 325992 | Photographic film, paper, plate, & chemical mfg | 1998.. | 35 578 | 2 206 648 | 1 779 379 | 427 269 |
| | | 1997.. | 38 935 | 2 253 981 | 1 828 139 | 425 842 |
| 325998 | All other miscellaneous chemical product & preparation mfg | 1998.. | 37 078 | 1 860 775 | 1 490 202 | 370 573 |
| | | 1997.. | 36 030 | 1 779 915 | 1 423 185 | 356 730 |
| 326 | Plastics & rubber products mfg | 1998.. | 1 042 811 | 39 258 489 | 31 181 806 | 8 076 684 |
| | | 1997.. | 1 030 909 | 37 867 946 | 30 048 415 | 7 822 531 |
| 3261 | Plastics product mfg | 1998.. | 836 010 | 29 965 320 | 24 193 942 | 5 771 378 |
| | | 1997.. | 827 169 | 28 904 186 | 23 232 717 | 5 671 469 |
| 32611 | Unsupported plastics film, sheet, & bag mfg | 1998.. | 109 922 | 4 625 817 | 3 699 247 | 926 570 |
| | | 1997.. | 110 657 | 4 590 612 | 3 659 960 | 930 652 |
| 326111 | Unsupported plastics bag mfg | 1998.. | 41 136 | 1 490 691 | 1 208 914 | 281 777 |
| | | 1997.. | 40 733 | 1 445 126 | 1 169 892 | 275 234 |
| 326112 | Unsupported plastics packaging film & sheet mfg | 1998.. | 14 973 | 693 343 | 554 635 | 138 708 |
| | | 1997.. | 15 351 | 681 521 | 549 120 | 132 401 |
| 326113 | Unsupported plastics film & sheet (except packaging) mfg | 1998.. | 53 813 | 2 441 783 | 1 935 698 | 506 085 |
| | | 1997.. | 54 573 | 2 463 965 | 1 940 948 | 523 017 |
| 32612 | Plastics pipe, pipe fitting, & unsupported profile shape mfg | 1998.. | 48 218 | 1 868 125 | 1 508 069 | 360 056 |
| | | 1997.. | 47 762 | 1 772 336 | 1 422 415 | 349 921 |
| 326121 | Unsupported plastics profile shape mfg | 1998.. | 28 415 | 1 119 543 | 895 991 | 223 552 |
| | | 1997.. | 27 752 | 1 082 996 | 869 811 | 213 185 |
| 326122 | Plastics pipe & pipe fitting mfg | 1998.. | 19 803 | 748 583 | 612 078 | 136 505 |
| | | 1997.. | 20 010 | 689 340 | 552 604 | 136 736 |
| 32613 | Laminated plastics plate, sheet, & shape mfg | 1998.. | 15 691 | 679 372 | 541 705 | 137 667 |
| | | 1997.. | 16 660 | 704 051 | 547 169 | 156 882 |
| 326130 | Laminated plastics plate, sheet, & shape mfg | 1998.. | 15 691 | 679 372 | 541 705 | 137 667 |
| | | 1997.. | 16 660 | 704 051 | 547 169 | 156 882 |
| 32614 | Polystyrene foam product mfg | 1998.. | 30 455 | 1 028 425 | 835 502 | 192 923 |
| | | 1997.. | 27 519 | 976 992 | 787 450 | 189 542 |
| 326140 | Polystyrene foam product mfg | 1998.. | 30 455 | 1 028 425 | 835 502 | 192 923 |
| | | 1997.. | 27 519 | 976 992 | 787 450 | 189 542 |
| 32615 | Urethane & other foam product (except polystyrene) mfg | 1998.. | 36 395 | 1 310 797 | 1 042 253 | 268 544 |
| | | 1997.. | 37 614 | 1 277 830 | 1 011 453 | 266 377 |
| 326150 | Urethane & other foam product (except polystyrene) mfg | 1998.. | 36 395 | 1 310 797 | 1 042 253 | 268 544 |
| | | 1997.. | 37 614 | 1 277 830 | 1 011 453 | 266 377 |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|---------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 326 | Plastics & rubber products mfg—Con. | | | | | |
| 3261 | Plastics product mfg—Con. | | | | | |
| 32616 | Plastics bottle mfg | 1998.. | 35 681 | 1 292 062 | 1 026 782 | 265 280 |
| | | 1997.. | 34 667 | 1 239 578 | 979 205 | 260 373 |
| 326160 | Plastics bottle mfg | 1998.. | 35 681 | 1 292 062 | 1 026 782 | 265 280 |
| | | 1997.. | 34 667 | 1 239 578 | 979 205 | 260 373 |
| 32619 | Other plastics product mfg | 1998.. | 559 648 | 19 160 722 | 15 540 383 | 3 620 338 |
| | | 1997.. | 552 290 | 18 342 787 | 14 825 065 | 3 517 722 |
| 326191 | Plastics plumbing fixture mfg | 1998.. | 19 352 | 611 432 | 498 664 | 112 768 |
| | | 1997.. | 19 359 | 562 256 | 455 236 | 107 020 |
| 326192 | Resilient floor covering mfg | 1998.. | 6 484 | 341 545 | 277 255 | 64 289 |
| | | 1997.. | 6 070 | 336 880 | 270 689 | 66 191 |
| 326199 | All other plastics product mfg | 1998.. | 533 812 | 18 207 745 | 14 764 464 | 3 443 281 |
| | | 1997.. | 526 861 | 17 443 651 | 14 099 140 | 3 344 511 |
| 3262 | Rubber product mfg | 1998.. | 206 801 | 9 293 169 | 6 987 863 | 2 305 306 |
| | | 1997.. | 203 740 | 8 963 760 | 6 812 698 | 2 151 062 |
| 32621 | Tire mfg | 1998.. | 73 710 | 4 195 102 | 3 032 559 | 1 162 543 |
| | | 1997.. | 72 304 | 4 000 480 | 2 965 563 | 1 034 917 |
| 326211 | Tire mfg (except retreading) | 1998.. | 65 498 | 3 940 138 | 2 826 129 | 1 114 009 |
| | | 1997.. | 64 365 | 3 759 091 | 2 773 176 | 985 915 |
| 326212 | Tire retreading | 1998.. | 8 212 | 254 964 | 206 430 | 48 534 |
| | | 1997.. | 7 939 | 241 389 | 192 387 | 49 002 |
| 32622 | Rubber & plastics hoses & belting mfg | 1998.. | 24 789 | 1 050 545 | 792 586 | 257 960 |
| | | 1997.. | 24 182 | 1 011 301 | 749 220 | 262 081 |
| 326220 | Rubber & plastics hoses & belting mfg | 1998.. | 24 789 | 1 050 545 | 792 586 | 257 960 |
| | | 1997.. | 24 182 | 1 011 301 | 749 220 | 262 081 |
| 32629 | Other rubber product mfg | 1998.. | 108 302 | 4 047 522 | 3 162 718 | 884 803 |
| | | 1997.. | 107 254 | 3 951 979 | 3 097 915 | 854 064 |
| 326291 | Rubber product mfg for mechanical use | 1998.. | 56 995 | 2 163 515 | 1 668 702 | 494 813 |
| | | 1997.. | 55 669 | 2 067 196 | 1 598 812 | 468 384 |
| 326299 | All other rubber product mfg | 1998.. | 51 308 | 1 884 007 | 1 494 016 | 389 991 |
| | | 1997.. | 51 585 | 1 884 783 | 1 499 103 | 385 680 |
| 327 | Nonmetallic mineral product mfg | 1998.. | 511 680 | 21 610 477 | 17 010 039 | 4 600 438 |
| | | 1997.. | 504 425 | 20 670 925 | 16 271 263 | 4 399 662 |
| 3271 | Clay product & refractory mfg | 1998.. | 78 535 | 2 861 063 | 2 257 647 | 603 416 |
| | | 1997.. | 80 740 | 2 845 459 | 2 245 025 | 600 434 |
| 32711 | Pottery, ceramics, & plumbing fixture mfg | 1998.. | 41 455 | 1 440 380 | 1 134 900 | 305 480 |
| | | 1997.. | 42 594 | 1 415 564 | 1 114 914 | 300 650 |
| 327111 | Vitreous china plumbing fixture & bathroom accessories mfg | 1998.. | 9 604 | 399 683 | 306 131 | 93 552 |
| | | 1997.. | 9 222 | 370 041 | 284 871 | 85 170 |
| 327112 | Vitreous china, fine earthenware, & other pottery product mfg | 1998.. | 22 134 | 643 212 | 510 126 | 133 086 |
| | | 1997.. | 23 290 | 639 406 | 504 789 | 134 617 |
| 327113 | Porcelain electrical supply mfg | 1998.. | 9 717 | 397 485 | 318 643 | 78 842 |
| | | 1997.. | 10 082 | 406 117 | 325 254 | 80 863 |
| 32712 | Clay building material & refractories mfg | 1998.. | 37 080 | 1 420 683 | 1 122 747 | 297 936 |
| | | 1997.. | 38 146 | 1 429 895 | 1 130 111 | 299 784 |
| 327121 | Brick & structural clay tile mfg | 1998.. | 13 489 | 457 125 | 370 236 | 86 889 |
| | | 1997.. | 13 808 | 449 974 | 364 199 | 85 775 |
| 327122 | Ceramic wall & floor tile mfg | 1998.. | 8 392 | 253 768 | 205 276 | 48 492 |
| | | 1997.. | 8 804 | 269 508 | 216 199 | 53 309 |
| 327123 | Other structural clay product mfg | 1998.. | 1 490 | 50 117 | 38 270 | 11 847 |
| | | 1997.. | 1 332 | 45 938 | 35 163 | 10 775 |
| 327124 | Clay refractory mfg | 1998.. | 5 617 | 259 054 | 201 829 | 57 225 |
| | | 1997.. | 5 781 | 254 207 | 199 274 | 54 933 |
| 327125 | Nonclay refractory mfg | 1998.. | 8 092 | 400 619 | 307 136 | 93 483 |
| | | 1997.. | 8 421 | 410 268 | 315 276 | 94 992 |
| 3272 | Glass & glass product mfg | 1998.. | 127 368 | 5 779 645 | 4 446 203 | 1 333 442 |
| | | 1997.. | 128 876 | 5 755 405 | 4 436 753 | 1 318 652 |
| 32721 | Glass & glass product mfg | 1998.. | 127 368 | 5 779 645 | 4 446 203 | 1 333 442 |
| | | 1997.. | 128 876 | 5 755 405 | 4 436 753 | 1 318 652 |
| 327211 | Flat glass mfg | 1998.. | 11 255 | 678 662 | 534 062 | 144 600 |
| | | 1997.. | 11 579 | 696 394 | 535 454 | 160 940 |
| 327212 | Other pressed & blown glass & glassware mfg | 1998.. | 35 055 | 1 636 245 | 1 215 620 | 420 625 |
| | | 1997.. | 35 588 | 1 635 122 | 1 233 610 | 401 512 |
| 327213 | Glass container mfg | 1998.. | 20 044 | 1 110 947 | 824 990 | 285 957 |
| | | 1997.. | 21 184 | 1 129 899 | 840 703 | 289 196 |
| 327215 | Glass product mfg made of purchased glass | 1998.. | 61 014 | 2 353 791 | 1 871 531 | 482 260 |
| | | 1997.. | 60 525 | 2 293 990 | 1 826 986 | 467 004 |
| 3273 | Cement & concrete product mfg | 1998.. | 204 238 | 8 541 719 | 6 805 092 | 1 736 627 |
| | | 1997.. | 197 115 | 7 889 467 | 6 261 360 | 1 628 107 |
| 32731 | Cement mfg | 1998.. | 17 260 | 999 276 | 766 544 | 232 732 |
| | | 1997.. | 16 973 | 954 626 | 735 506 | 219 120 |
| 327310 | Cement mfg | 1998.. | 17 260 | 999 276 | 766 544 | 232 732 |
| | | 1997.. | 16 973 | 954 626 | 735 506 | 219 120 |
| 32732 | Ready-mix concrete mfg | 1998.. | 95 837 | 4 030 131 | 3 225 542 | 804 589 |
| | | 1997.. | 94 300 | 3 767 776 | 3 006 613 | 761 163 |
| 327320 | Ready-mix concrete mfg | 1998.. | 95 837 | 4 030 131 | 3 225 542 | 804 589 |
| | | 1997.. | 94 300 | 3 767 776 | 3 006 613 | 761 163 |
| 32733 | Concrete pipe, brick, & block mfg | 1998.. | 34 116 | 1 401 722 | 1 115 519 | 286 203 |
| | | 1997.. | 32 617 | 1 267 730 | 1 003 954 | 263 776 |
| 327331 | Concrete block & brick mfg | 1998.. | 19 385 | 805 112 | 635 467 | 169 644 |
| | | 1997.. | 18 250 | 717 969 | 563 552 | 154 417 |
| 327332 | Concrete pipe mfg | 1998.. | 14 732 | 596 611 | 480 052 | 116 559 |
| | | 1997.. | 14 367 | 549 761 | 440 402 | 109 359 |
| 327339 | Other concrete product mfg | 1998.. | 57 025 | 2 110 590 | 1 697 488 | 413 102 |
| | | 1997.. | 53 225 | 1 899 335 | 1 515 287 | 384 048 |
| 327390 | Other concrete product mfg | 1998.. | 57 025 | 2 110 590 | 1 697 488 | 413 102 |
| | | 1997.. | 53 225 | 1 899 335 | 1 515 287 | 384 048 |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|------------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 327 | Nonmetallic mineral product mfg—Con. | | | | | |
| 3274 | Lime & gypsum product mfg | 1998.. | 20 350 | 948 805 | 764 382 | 184 422 |
| | | 1997.. | 19 094 | 864 969 | 700 958 | 164 011 |
| 32741 | Lime mfg | 1998.. | 5 793 | 284 888 | 224 007 | 60 881 |
| | | 1997.. | 5 358 | 248 889 | 196 630 | 52 259 |
| 327410 | Lime mfg | 1998.. | 5 793 | 284 888 | 224 007 | 60 881 |
| | | 1997.. | 5 358 | 248 889 | 196 630 | 52 259 |
| 32742 | Gypsum product mfg | 1998.. | 14 557 | 663 917 | 540 375 | 123 541 |
| | | 1997.. | 13 736 | 616 080 | 504 328 | 111 752 |
| 327420 | Gypsum product mfg | 1998.. | 14 557 | 663 917 | 540 375 | 123 541 |
| | | 1997.. | 13 736 | 616 080 | 504 328 | 111 752 |
| 3279 | Other nonmetallic mineral product mfg | 1998.. | 81 189 | 3 479 245 | 2 736 714 | 742 531 |
| | | 1997.. | 78 600 | 3 315 625 | 2 627 167 | 688 458 |
| 32791 | Abrasive product mfg | 1998.. | 21 356 | 958 312 | 746 828 | 211 485 |
| | | 1997.. | 22 605 | 994 509 | 783 548 | 210 961 |
| 327910 | Abrasive product mfg | 1998.. | 21 356 | 958 312 | 746 828 | 211 485 |
| | | 1997.. | 22 605 | 994 509 | 783 548 | 210 961 |
| 32799 | All other nonmetallic mineral product mfg | 1998.. | 59 833 | 2 520 933 | 1 989 887 | 531 046 |
| | | 1997.. | 55 995 | 2 321 116 | 1 843 619 | 477 497 |
| 327991 | Cut stone & stone product mfg | 1998.. | 14 388 | 468 220 | 370 665 | 97 556 |
| | | 1997.. | 13 165 | 441 031 | 352 039 | 88 992 |
| 327992 | Ground or treated mineral & earth mfg | 1998.. | 10 459 | 497 732 | 389 897 | 107 835 |
| | | 1997.. | 10 144 | 464 911 | 362 670 | 102 241 |
| 327993 | Mineral wool mfg | 1998.. | 22 733 | 1 107 668 | 873 659 | 234 009 |
| | | 1997.. | 21 610 | 1 021 107 | 811 380 | 209 727 |
| 327999 | All other miscellaneous nonmetallic mineral product mfg | 1998.. | 12 253 | 447 313 | 355 666 | 91 646 |
| | | 1997.. | 11 076 | 394 067 | 317 530 | 76 537 |
| 331 | Primary metal mfg | 1998.. | 606 978 | 32 217 717 | 24 286 776 | 7 930 941 |
| | | 1997.. | 609 136 | 31 980 968 | 23 969 717 | 8 011 251 |
| 3311 | Iron & steel mills & ferroalloy mfg | 1998.. | 149 728 | 10 725 437 | 7 697 674 | 3 027 763 |
| | | 1997.. | 150 113 | 10 789 794 | 7 616 191 | 3 173 603 |
| 33111 | Iron & steel mills & ferroalloy mfg | 1998.. | 149 728 | 10 725 437 | 7 697 674 | 3 027 763 |
| | | 1997.. | 150 113 | 10 789 794 | 7 616 191 | 3 173 603 |
| 331111 | Iron & steel mills | 1998.. | 145 995 | 10 510 216 | 7 535 856 | 2 974 360 |
| | | 1997.. | 146 389 | 10 583 500 | 7 459 245 | 3 124 255 |
| 331112 | Electrometallurgical ferroalloy product mfg | 1998.. | 3 733 | 215 221 | 161 818 | 53 403 |
| | | 1997.. | 3 724 | 206 294 | 156 946 | 49 348 |
| 3312 | Steel product mfg from purchased steel | 1998.. | 64 766 | 3 118 322 | 2 407 532 | 710 789 |
| | | 1997.. | 65 181 | 3 066 543 | 2 361 163 | 705 380 |
| 33121 | Iron & steel pipes & tubes mfg from purchased steel | 1998.. | 27 852 | 1 293 924 | 1 013 297 | 280 626 |
| | | 1997.. | 27 209 | 1 258 372 | 990 493 | 267 879 |
| 331210 | Iron & steel pipes & tubes mfg from purchased steel | 1998.. | 27 852 | 1 293 924 | 1 013 297 | 280 626 |
| | | 1997.. | 27 209 | 1 258 372 | 990 493 | 267 879 |
| 33122 | Rolling & drawing of purchased steel | 1998.. | 36 915 | 1 824 398 | 1 394 235 | 430 163 |
| | | 1997.. | 37 972 | 1 808 171 | 1 370 670 | 437 501 |
| 331221 | Cold-rolled steel shape mfg | 1998.. | 14 348 | 887 721 | 653 472 | 234 249 |
| | | 1997.. | 14 197 | 865 765 | 633 162 | 232 603 |
| 331222 | Steel wire drawing | 1998.. | 22 567 | 936 678 | 740 763 | 195 914 |
| | | 1997.. | 23 775 | 942 406 | 737 508 | 204 898 |
| 3313 | Alumina & aluminum production & processing | 1998.. | 85 879 | 4 514 057 | 3 354 555 | 1 159 503 |
| | | 1997.. | 85 299 | 4 468 239 | 3 375 953 | 1 092 286 |
| 33131 | Alumina & aluminum production & processing | 1998.. | 85 879 | 4 514 057 | 3 354 555 | 1 159 503 |
| | | 1997.. | 85 299 | 4 468 239 | 3 375 953 | 1 092 286 |
| 331311 | Alumina refining | 1998.. | 3 148 | 210 978 | 146 599 | 64 379 |
| | | 1997.. | 3 035 | 205 266 | 150 696 | 54 570 |
| 331312 | Primary aluminum production | 1998.. | 16 317 | 1 016 513 | 730 453 | 286 060 |
| | | 1997.. | 15 763 | 959 564 | 707 402 | 252 162 |
| 331314 | Secondary smelting & alloying of aluminum | 1998.. | 7 248 | 320 995 | 249 117 | 71 879 |
| | | 1997.. | 6 714 | 294 209 | 229 293 | 64 916 |
| 331315 | Aluminum sheet, plate, & foil mfg | 1998.. | 23 203 | 1 477 065 | 1 079 242 | 397 823 |
| | | 1997.. | 25 111 | 1 600 838 | 1 199 382 | 401 456 |
| 331316 | Aluminum extruded product mfg | 1998.. | 31 690 | 1 299 791 | 1 001 575 | 298 217 |
| | | 1997.. | 30 357 | 1 221 182 | 944 829 | 276 353 |
| 331319 | Other aluminum rolling & drawing | 1998.. | 4 271 | 188 715 | 147 569 | 41 146 |
| | | 1997.. | 4 319 | 187 180 | 144 351 | 42 829 |
| 3314 | Nonferrous metal (except aluminum) production & processing | 1998.. | 80 850 | 3 948 083 | 3 076 602 | 871 481 |
| | | 1997.. | 81 717 | 3 954 908 | 3 068 568 | 886 340 |
| 33141 | Nonferrous metal (except aluminum) smelting & refining | 1998.. | 16 115 | 813 980 | 629 369 | 184 612 |
| | | 1997.. | 16 624 | 846 927 | 653 383 | 193 544 |
| 331411 | Primary smelting & refining of copper | 1998.. | 6 539 | 326 163 | 249 314 | 76 849 |
| | | 1997.. | 7 360 | 372 254 | 287 382 | 84 872 |
| 331419 | Other nonferrous metal primary smelting & refining | 1998.. | 9 576 | 487 817 | 380 054 | 107 763 |
| | | 1997.. | 9 264 | 474 673 | 366 001 | 108 672 |
| 33142 | Copper rolling, drawing, extruding, & alloying | 1998.. | 27 990 | 1 317 294 | 1 025 614 | 291 680 |
| | | 1997.. | 27 708 | 1 286 562 | 1 001 529 | 285 033 |
| 331421 | Copper rolling, drawing, & extruding | 1998.. | 21 252 | 1 036 598 | 804 087 | 232 512 |
| | | 1997.. | 21 137 | 1 013 092 | 786 184 | 226 908 |
| 331422 | Copper wire (except mechanical) drawing | 1998.. | 4 452 | 166 512 | 132 277 | 34 235 |
| | | 1997.. | 4 238 | 157 353 | 124 240 | 33 113 |
| 331423 | Secondary smelting, refining, & alloying of copper | 1998.. | 2 285 | 114 184 | 89 251 | 24 933 |
| | | 1997.. | 2 333 | 116 117 | 91 105 | 25 012 |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— | |
|------------|-----------------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|----|
| | | | Total | Payroll | Total fringe benefits | | |
| | | A | B | C | D | | |
| 331 | Primary metal mfg—Con. | | | | | | |
| 3314 | Nonferrous metal (except aluminum) production & processing—Con. | | | | | | |
| 33149 | Other nonferrous metal rolling, drawing, extruding, & alloying | 1998.. | 36 746 | 1 816 808 | 1 421 618 | 395 189 | 1 |
| | | 1997.. | 37 385 | 1 821 419 | 1 413 656 | 407 763 | X |
| 331491 | Other nonferrous metal rolling, drawing, & extruding | 1998.. | 25 752 | 1 287 181 | 1 005 563 | 281 618 | 1 |
| | | 1997.. | 25 834 | 1 281 225 | 989 865 | 291 360 | X |
| 331492 | Other nonferrous metal secondary smelting, refining, & alloying | 1998.. | 10 994 | 529 626 | 416 055 | 113 571 | 1 |
| | | 1997.. | 11 551 | 540 194 | 423 791 | 116 403 | X |
| 3315 | Foundries | 1998.. | 225 755 | 9 911 818 | 7 750 413 | 2 161 405 | 1 |
| | | 1997.. | 226 826 | 9 701 484 | 7 547 842 | 2 153 642 | X |
| 33151 | Ferrous metal foundries | 1998.. | 128 543 | 6 086 379 | 4 732 839 | 1 353 540 | 2 |
| | | 1997.. | 132 853 | 6 051 044 | 4 666 674 | 1 384 370 | X |
| 331511 | Iron foundries | 1998.. | 81 659 | 4 160 790 | 3 217 093 | 943 697 | 3 |
| | | 1997.. | 86 198 | 4 220 054 | 3 234 387 | 985 667 | X |
| 331512 | Steel investment foundries | 1998.. | 22 282 | 905 389 | 707 848 | 197 541 | 2 |
| | | 1997.. | 22 673 | 867 613 | 669 452 | 198 161 | X |
| 331513 | Steel foundries (except investment) | 1998.. | 24 602 | 1 020 200 | 807 898 | 212 302 | 1 |
| | | 1997.. | 23 982 | 963 377 | 762 835 | 200 542 | X |
| 33152 | Nonferrous metal foundries | 1998.. | 97 212 | 3 825 439 | 3 017 574 | 807 865 | 1 |
| | | 1997.. | 93 973 | 3 650 440 | 2 881 168 | 769 272 | X |
| 331521 | Aluminum die-casting foundries | 1998.. | 28 055 | 1 190 444 | 931 683 | 258 761 | 3 |
| | | 1997.. | 27 576 | 1 145 081 | 902 653 | 242 428 | X |
| 331522 | Nonferrous (except aluminum) die-casting foundries | 1998.. | 17 498 | 632 844 | 510 398 | 122 446 | 3 |
| | | 1997.. | 16 861 | 602 716 | 489 546 | 113 170 | X |
| 331524 | Aluminum foundries (except die-casting) | 1998.. | 35 368 | 1 341 587 | 1 061 338 | 280 249 | 1 |
| | | 1997.. | 34 098 | 1 283 329 | 1 013 843 | 269 486 | X |
| 331525 | Copper foundries (except die-casting) | 1998.. | 9 394 | 354 531 | 273 952 | 80 580 | 1 |
| | | 1997.. | 8 909 | 340 801 | 260 340 | 80 461 | X |
| 331528 | Other nonferrous foundries (except die-casting) | 1998.. | 6 897 | 306 032 | 240 203 | 65 829 | 1 |
| | | 1997.. | 6 529 | 278 513 | 214 786 | 63 727 | X |
| 332 | Fabricated metal product mfg | 1998.. | 1 817 699 | 73 567 522 | 59 473 125 | 14 094 398 | 1 |
| | | 1997.. | 1 772 149 | 70 410 569 | 56 887 563 | 13 523 006 | X |
| 3321 | Forging & stamping | 1998.. | 164 421 | 7 154 223 | 5 744 930 | 1 409 293 | 1 |
| | | 1997.. | 159 212 | 6 815 706 | 5 470 354 | 1 345 352 | X |
| 33211 | Forging & stamping | 1998.. | 164 421 | 7 154 223 | 5 744 930 | 1 409 293 | 1 |
| 332111 | Iron & steel forging | 1998.. | 28 770 | 1 461 507 | 1 148 448 | 313 059 | 1 |
| 332112 | Nonferrous forging | 1998.. | 26 477 | 1 333 143 | 1 034 307 | 298 836 | X |
| 332114 | Custom roll forming | 1998.. | 9 402 | 471 254 | 357 789 | 113 465 | 1 |
| 332115 | Crown & closure mfg | 1998.. | 9 129 | 471 494 | 366 879 | 104 615 | X |
| 332116 | Metal stamping | 1998.. | 15 181 | 641 094 | 514 478 | 126 616 | 6 |
| 332117 | Powder metallurgy part mfg | 1998.. | 15 440 | 625 837 | 507 792 | 118 045 | X |
| | | 1997.. | 4 396 | 210 533 | 161 982 | 48 551 | 1 |
| | | 1997.. | 4 628 | 213 551 | 163 702 | 49 849 | X |
| 33212 | Crown & closure mfg | 1998.. | 95 492 | 3 886 548 | 3 170 470 | 716 078 | 1 |
| | | 1997.. | 92 680 | 3 717 254 | 3 026 763 | 690 491 | X |
| 332122 | Metal stamping | 1998.. | 11 179 | 483 287 | 391 763 | 91 523 | 1 |
| | | 1997.. | 10 858 | 454 427 | 370 911 | 83 516 | X |
| 3322 | Cutlery & handtool mfg | 1998.. | 78 067 | 3 305 856 | 2 604 104 | 701 752 | 2 |
| | | 1997.. | 78 452 | 3 225 085 | 2 528 465 | 696 620 | X |
| 33221 | Cutlery & handtool mfg | 1998.. | 78 067 | 3 305 856 | 2 604 104 | 701 752 | 2 |
| 332211 | Cutlery & flatware (except precious) mfg | 1998.. | 78 452 | 3 225 085 | 2 528 465 | 696 620 | X |
| 332212 | Hand & edge tool mfg | 1998.. | 10 323 | 457 431 | 340 114 | 117 318 | 1 |
| 332213 | Saw blade & handsaw mfg | 1998.. | 11 191 | 483 373 | 364 107 | 119 266 | X |
| 332214 | Kitchen utensil, pot, & pan mfg | 1998.. | 51 456 | 2 174 497 | 1 732 841 | 441 657 | 2 |
| | | 1997.. | 50 388 | 2 064 621 | 1 634 557 | 430 064 | X |
| 332215 | Saw blade & handsaw mfg | 1998.. | 9 190 | 392 651 | 312 923 | 79 729 | 19 |
| 332216 | Metal stamping | 1998.. | 9 149 | 384 097 | 300 538 | 83 559 | X |
| 332217 | Kitchen utensil, pot, & pan mfg | 1998.. | 7 099 | 281 276 | 218 227 | 63 048 | 5 |
| | | 1997.. | 7 724 | 292 994 | 229 263 | 63 731 | X |
| 3323 | Architectural & structural metals mfg | 1998.. | 397 878 | 15 071 249 | 12 300 623 | 2 770 625 | 1 |
| | | 1997.. | 383 557 | 14 142 210 | 11 508 493 | 2 633 717 | X |
| 33231 | Plate work & fabricated structural product mfg | 1998.. | 147 813 | 5 892 284 | 4 791 384 | 1 100 899 | 1 |
| 332311 | Prefabricated metal building & component mfg | 1998.. | 145 265 | 5 603 724 | 4 548 386 | 1 055 338 | X |
| 332312 | Fabricated structural metal mfg | 1998.. | 25 456 | 984 757 | 814 135 | 170 622 | 5 |
| | | 1997.. | 26 532 | 942 441 | 780 911 | 161 530 | X |
| 332313 | Plate work mfg | 1998.. | 96 462 | 3 895 101 | 3 154 465 | 740 636 | 1 |
| 33232 | Ornamental & architectural metal products mfg | 1998.. | 93 129 | 3 668 541 | 2 965 327 | 703 214 | X |
| | | 1997.. | 25 896 | 1 012 426 | 822 785 | 189 641 | 2 |
| 332322 | Metal window & door mfg | 1998.. | 25 604 | 992 742 | 802 148 | 190 594 | X |
| | | 1997.. | 250 065 | 9 178 965 | 7 509 239 | 1 669 726 | 1 |
| 332323 | Sheet metal work mfg | 1998.. | 238 292 | 8 538 486 | 6 960 107 | 1 578 379 | X |
| | | 1997.. | 77 990 | 2 584 793 | 2 112 133 | 472 661 | 1 |
| 332324 | Metal tank (heavy gauge) mfg | 1998.. | 74 203 | 2 374 094 | 1 934 060 | 440 034 | X |
| | | 1997.. | 129 246 | 4 944 909 | 4 038 298 | 947 553 | 1 |
| 332325 | Ornamental & architectural metal work mfg | 1998.. | 36 284 | 1 324 654 | 1 075 142 | 249 512 | 2 |
| | | 1997.. | 34 843 | 1 219 483 | 987 749 | 231 734 | X |
| 3324 | Boiler, tank, & shipping container mfg | 1998.. | 102 838 | 4 788 689 | 3 805 937 | 982 752 | 1 |
| | | 1997.. | 103 527 | 4 674 559 | 3 711 942 | 962 617 | X |
| 33241 | Power boiler & heat exchanger mfg | 1998.. | 28 851 | 1 246 231 | 1 007 419 | 238 812 | 5 |
| 332410 | Power boiler & heat exchanger mfg | 1998.. | 27 781 | 1 192 844 | 955 029 | 237 815 | X |
| 33242 | Metal tank (heavy gauge) mfg | 1998.. | 28 851 | 1 246 231 | 1 007 419 | 238 812 | 5 |
| | | 1997.. | 27 781 | 1 192 844 | 955 029 | 237 815 | X |
| 332420 | Metal tank (heavy gauge) mfg | 1998.. | 32 595 | 1 423 669 | 1 150 321 | 273 348 | 2 |
| | | 1997.. | 33 556 | 1 403 164 | 1 132 370 | 270 794 | X |
| | | | | 1 403 164 | 1 150 321 | 273 348 | 2 |
| | | | | | 1 132 370 | 270 794 | X |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|------------------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 332 | Fabricated metal product mfg—Con. | | | | | |
| 3324 | Boiler, tank, & shipping container mfg—Con. | | | | | |
| 33243 | Metal can, box, & other metal container (light gauge) mfg | 1998.. | 41 393 | 2 118 789 | 1 648 197 | 470 592 |
| | | 1997.. | 42 190 | 2 078 551 | 1 624 543 | 454 008 |
| 332431 | Metal can mfg | 1998.. | 25 271 | 1 492 151 | 1 139 276 | 352 875 |
| | | 1997.. | 27 316 | 1 527 915 | 1 185 705 | 342 210 |
| 332439 | Other metal container mfg | 1998.. | 16 121 | 626 638 | 508 920 | 117 718 |
| | | 1997.. | 14 874 | 550 636 | 438 838 | 111 798 |
| 3325 | Hardware mfg | 1998.. | 72 663 | 2 866 516 | 2 256 842 | 609 673 |
| | | 1997.. | 74 914 | 2 950 741 | 2 308 500 | 642 241 |
| 33251 | Hardware mfg | 1998.. | 72 663 | 2 866 516 | 2 256 842 | 609 673 |
| | | 1997.. | 74 914 | 2 950 741 | 2 308 500 | 642 241 |
| 332510 | Hardware mfg | 1998.. | 72 663 | 2 866 516 | 2 256 842 | 609 673 |
| | | 1997.. | 74 914 | 2 950 741 | 2 308 500 | 642 241 |
| 3326 | Spring & wire product mfg | 1998.. | 70 307 | 2 495 993 | 2 024 031 | 471 962 |
| | | 1997.. | 70 736 | 2 374 304 | 1 921 620 | 452 684 |
| 33261 | Spring & wire product mfg | 1998.. | 70 307 | 2 495 993 | 2 024 031 | 471 962 |
| | | 1997.. | 70 736 | 2 374 304 | 1 921 620 | 452 684 |
| 332611 | Spring (heavy gauge) mfg | 1998.. | 5 828 | 254 558 | 202 570 | 51 988 |
| | | 1997.. | 5 581 | 229 732 | 183 180 | 46 552 |
| 332612 | Spring (light gauge) mfg | 1998.. | 19 201 | 737 606 | 591 198 | 146 409 |
| | | 1997.. | 18 798 | 698 818 | 564 372 | 134 446 |
| 332618 | Other fabricated wire product mfg | 1998.. | 45 278 | 1 503 828 | 1 230 263 | 273 566 |
| | | 1997.. | 46 357 | 1 445 754 | 1 174 068 | 271 686 |
| 3327 | Machine shops, turned product, & screw, nut, & bolt mfg | 1998.. | 442 139 | 17 572 465 | 14 626 261 | 2 946 204 |
| | | 1997.. | 423 692 | 16 923 903 | 14 048 327 | 2 875 576 |
| 33271 | Machine shops | 1998.. | 304 258 | 11 733 062 | 9 878 957 | 1 854 105 |
| | | 1997.. | 290 278 | 11 276 605 | 9 474 361 | 1 802 244 |
| 332710 | Machine shops | 1998.. | 304 258 | 11 733 062 | 9 878 957 | 1 854 105 |
| | | 1997.. | 290 278 | 11 276 605 | 9 474 361 | 1 802 244 |
| 33272 | Turned product & screw, nut, & bolt mfg | 1998.. | 137 881 | 5 839 402 | 4 747 304 | 1 092 098 |
| | | 1997.. | 133 414 | 5 647 298 | 4 573 966 | 1 073 332 |
| 332721 | Precision turned product mfg | 1998.. | 80 837 | 3 283 607 | 2 699 614 | 583 993 |
| | | 1997.. | 80 419 | 3 212 988 | 2 634 589 | 578 399 |
| 332722 | Bolt, nut, screw, rivet, & washer mfg | 1998.. | 57 044 | 2 555 795 | 2 047 690 | 508 105 |
| | | 1997.. | 52 995 | 2 434 310 | 1 939 377 | 494 933 |
| 3328 | Coating, engraving, heat treating, & allied activities | 1998.. | 159 703 | 5 915 659 | 4 819 244 | 1 096 416 |
| | | 1997.. | 153 275 | 5 520 557 | 4 525 102 | 995 455 |
| 33281 | Coating, engraving, heat treating, & allied activities | 1998.. | 159 703 | 5 915 659 | 4 819 244 | 1 096 416 |
| | | 1997.. | 153 275 | 5 520 557 | 4 525 102 | 995 455 |
| 332811 | Metal heat treating | 1998.. | 23 345 | 1 061 988 | 860 992 | 200 996 |
| | | 1997.. | 22 506 | 986 188 | 797 170 | 189 018 |
| 332812 | Metal coating/engraving (exc jewelry/silverware)/allied services | 1998.. | 60 994 | 2 220 077 | 1 774 848 | 445 229 |
| | | 1997.. | 56 030 | 2 007 590 | 1 634 808 | 372 782 |
| 332813 | Electroplating, plating, polishing, anodizing, & coloring | 1998.. | 75 363 | 2 633 595 | 2 183 404 | 450 191 |
| | | 1997.. | 74 739 | 2 526 779 | 2 093 124 | 433 655 |
| 3329 | Other fabricated metal product mfg | 1998.. | 329 684 | 14 396 873 | 11 291 152 | 3 105 721 |
| | | 1997.. | 324 784 | 13 783 504 | 10 864 760 | 2 918 744 |
| 33291 | Metal valve mfg | 1998.. | 126 864 | 5 773 434 | 4 467 538 | 1 305 896 |
| | | 1997.. | 126 383 | 5 587 149 | 4 367 193 | 1 219 956 |
| 332911 | Industrial valve mfg | 1998.. | 54 956 | 2 572 346 | 2 003 367 | 568 980 |
| | | 1997.. | 54 472 | 2 472 030 | 1 949 741 | 522 289 |
| 332912 | Fluid power valve & hose fitting mfg | 1998.. | 38 878 | 1 844 140 | 1 400 739 | 443 400 |
| | | 1997.. | 37 132 | 1 738 627 | 1 324 392 | 414 235 |
| 332913 | Plumbing fixture fitting & trim mfg | 1998.. | 15 498 | 646 085 | 500 881 | 145 204 |
| | | 1997.. | 16 161 | 639 046 | 500 156 | 138 890 |
| 332919 | Other metal valve & pipe fitting mfg | 1998.. | 17 532 | 710 862 | 562 551 | 148 312 |
| | | 1997.. | 18 618 | 737 446 | 592 904 | 144 642 |
| 33299 | All other fabricated metal product mfg | 1998.. | 202 820 | 8 623 440 | 6 823 614 | 1 799 825 |
| | | 1997.. | 198 401 | 8 196 355 | 6 497 567 | 1 698 788 |
| 332991 | Ball & roller bearing mfg | 1998.. | 36 884 | 1 841 577 | 1 401 306 | 440 271 |
| | | 1997.. | 36 447 | 1 781 174 | 1 366 923 | 414 251 |
| 332992 | Small arms ammunition mfg | 1998.. | 7 005 | 325 103 | 250 332 | 74 770 |
| | | 1997.. | 6 987 | 316 088 | 247 283 | 68 805 |
| 332993 | Ammunition (except small arms) mfg | 1998.. | 9 625 | 505 459 | 389 567 | 115 893 |
| | | 1997.. | 9 427 | 486 262 | 379 450 | 106 812 |
| 332994 | Small arms mfg | 1998.. | 9 640 | 413 110 | 321 406 | 91 705 |
| | | 1997.. | 9 865 | 415 454 | 320 044 | 95 410 |
| 332995 | Other ordnance & accessories mfg | 1998.. | 8 467 | 446 906 | 364 232 | 82 674 |
| | | 1997.. | 8 618 | 458 860 | 363 890 | 94 970 |
| 332996 | Fabricated pipe & pipe fitting mfg | 1998.. | 31 167 | 1 171 705 | 959 477 | 212 229 |
| | | 1997.. | 30 270 | 1 096 860 | 895 345 | 201 515 |
| 332997 | Industrial pattern mfg | 1998.. | 7 887 | 351 083 | 294 654 | 56 428 |
| | | 1997.. | 7 959 | 342 298 | 285 038 | 57 260 |
| 332998 | Enameled iron & metal sanitary ware mfg | 1998.. | 10 149 | 425 057 | 325 928 | 99 129 |
| | | 1997.. | 9 994 | 361 782 | 280 462 | 81 320 |
| 332999 | All other miscellaneous fabricated metal product mfg | 1998.. | 81 996 | 3 143 438 | 2 516 713 | 626 726 |
| | | 1997.. | 78 834 | 2 937 577 | 2 359 132 | 578 445 |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

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| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|----------------------------------------------------------------------|--------------------------------------|--------------------------|--------------------------|--------------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | | A | B | C | D |
| 333 | Machinery mfg | 1998.. 1 438 709 1997.. 1 425 067 | 67 930 612 66 610 073 | 54 255 276 53 200 635 | 13 675 336 13 409 438 | 1 X |
| 3331 | Agriculture, construction, & mining machinery mfg .. | 1998.. 211 930 1997.. 212 405 | 10 263 707 10 113 673 | 7 873 342 7 735 543 | 2 390 366 2 378 130 | 1 X |
| 33311 | Agricultural implement mfg | 1998.. 93 680 1997.. 94 987 | 4 168 166 4 138 337 | 3 128 658 3 110 326 | 1 039 509 1 028 011 | 1 X |
| 333111 | Farm machinery & equipment mfg | 1998.. 66 425 1997.. 66 370 | 3 187 147 3 173 064 | 2 388 528 2 370 599 | 798 618 802 465 | 1 X |
| 333112 | Lawn & garden tractor & home lawn & garden equipment mfg | 1998.. 27 255 1997.. 28 617 | 981 020 965 273 | 740 129 739 727 | 240 891 225 546 | 1 X |
| 33312 | Construction machinery mfg | 1998.. 73 290 1997.. 74 965 | 3 929 670 3 942 352 | 3 010 653 2 998 967 | 919 017 943 385 | 1 X |
| 333120 | Construction machinery mfg | 1998.. 73 290 1997.. 74 965 | 3 929 670 3 942 352 | 3 010 653 2 998 967 | 919 017 943 385 | 1 X |
| 33313 | Mining & oil & gas field machinery mfg | 1998.. 44 960 1997.. 42 453 | 2 165 871 2 032 984 | 1 734 031 1 626 250 | 431 840 406 734 | 1 X |
| 333131 | Mining machinery & equipment mfg | 1998.. 14 726 1997.. 13 547 | 665 452 615 786 | 527 124 486 496 | 138 328 129 290 | 3 X |
| 333132 | Oil & gas field machinery & equipment mfg | 1998.. 30 234 1997.. 28 906 | 1 500 419 1 417 198 | 1 206 907 1 139 754 | 293 512 277 444 | 1 X |
| 3332 | Industrial machinery mfg | 1998.. 198 571 1997.. 194 112 | 9 509 244 9 385 944 | 7 727 729 7 600 430 | 1 781 515 1 785 514 | 1 X |
| 33321 | Sawmill & woodworking machinery mfg | 1998.. 9 313 1997.. 9 128 | 404 689 374 677 | 320 836 302 587 | 83 853 72 090 | 7 X |
| 333210 | Sawmill & woodworking machinery mfg | 1998.. 9 313 1997.. 9 128 | 404 689 374 677 | 320 836 302 587 | 83 853 72 090 | 7 X |
| 33322 | Plastics & rubber industry machinery mfg | 1998.. 18 877 1997.. 18 624 | 902 080 937 243 | 724 493 746 777 | 177 587 190 466 | 2 X |
| 333220 | Plastics & rubber industry machinery mfg | 1998.. 18 877 1997.. 18 624 | 902 080 937 243 | 724 493 746 777 | 177 587 190 466 | 2 X |
| 33329 | Other industrial machinery mfg | 1998.. 170 381 1997.. 166 360 | 8 202 475 8 074 024 | 6 682 400 6 551 066 | 1 520 075 1 522 958 | 1 X |
| 333291 | Paper industry machinery mfg | 1998.. 18 703 1997.. 18 594 | 965 289 964 812 | 778 404 772 659 | 186 885 192 153 | 2 X |
| 333292 | Textile machinery mfg | 1998.. 12 870 1997.. 13 550 | 529 576 533 877 | 444 033 446 138 | 85 542 87 739 | 5 X |
| 333293 | Printing machinery & equipment mfg | 1998.. 21 173 1997.. 21 000 | 1 069 666 1 041 221 | 870 328 852 640 | 199 338 188 581 | 2 X |
| 333294 | Food product machinery mfg | 1998.. 19 172 1997.. 19 026 | 898 980 878 126 | 731 999 715 068 | 166 981 163 058 | 3 X |
| 333295 | Semiconductor machinery mfg | 1998.. 43 978 1997.. 40 087 | 2 199 090 2 127 209 | 1 776 467 1 701 669 | 422 623 425 540 | 2 X |
| 333298 | All other industrial machinery mfg | 1998.. 54 484 1997.. 54 103 | 2 539 875 2 528 779 | 2 081 169 2 062 892 | 458 706 465 887 | 3 X |
| 3333 | Commercial & service industry machinery mfg | 1998.. 131 024 1997.. 130 051 | 5 923 585 5 857 395 | 4 763 771 4 722 072 | 1 159 814 1 135 323 | 1 X |
| 33331 | Commercial & service industry machinery mfg | 1998.. 131 024 1997.. 130 051 | 5 923 585 5 857 395 | 4 763 771 4 722 072 | 1 159 814 1 135 323 | 1 X |
| 333311 | Automatic vending machine mfg | 1998.. 9 027 1997.. 8 178 | 289 989 269 830 | 230 654 215 627 | 59 335 54 203 | 2 X |
| 333312 | Commercial laundry, drycleaning, & pressing machine mfg | 1998.. 4 434 1997.. 4 523 | 164 671 168 346 | 134 405 136 783 | 30 266 31 563 | 1 X |
| 333313 | Office machinery mfg | 1998.. 13 679 1997.. 14 831 | 526 033 536 787 | 442 041 458 204 | 83 993 78 583 | 3 X |
| 333314 | Optical instrument & lens mfg | 1998.. 21 092 1997.. 20 902 | 1 060 358 1 023 104 | 874 068 837 136 | 186 290 185 968 | 2 X |
| 333315 | Photographic & photocopying equipment mfg .. | 1998.. 24 115 1997.. 24 707 | 1 334 982 1 377 913 | 1 054 002 1 099 950 | 280 980 277 963 | 1 X |
| 333319 | Other commercial & service industry machinery mfg | 1998.. 58 678 1997.. 56 910 | 2 547 551 2 481 415 | 2 028 602 1 974 372 | 518 950 507 043 | 1 X |
| 3334 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 1998.. 174 582 1997.. 174 416 | 6 946 335 6 721 829 | 5 515 195 5 353 600 | 1 431 140 1 368 229 | 1 X |
| 33341 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 1998.. 174 582 1997.. 174 416 | 6 946 335 6 721 829 | 5 515 195 5 353 600 | 1 431 140 1 368 229 | 1 X |
| 333411 | Air purification equipment mfg | 1998.. 16 245 1997.. 16 412 | 563 489 580 503 | 463 658 478 087 | 99 831 102 416 | 2 X |
| 333412 | Industrial & commercial fan & blower mfg .. | 1998.. 14 551 1997.. 13 723 | 586 632 528 824 | 476 623 432 195 | 110 010 96 629 | 7 X |
| 333414 | Heating equipment (except warm air furnaces) mfg | 1998.. 23 838 1997.. 24 597 | 914 844 936 247 | 731 032 755 114 | 183 812 181 133 | 3 X |
| 333415 | AC & warm air heating & commercial/industrial refrig equip mfg | 1998.. 119 948 1997.. 119 684 | 4 881 370 4 676 255 | 3 843 883 3 688 204 | 1 037 487 988 051 | 1 X |
| 3335 | Metalworking machinery mfg | 1998.. 247 807 1997.. 243 399 | 12 146 254 11 931 596 | 10 013 223 9 851 973 | 2 133 031 2 079 623 | 1 X |
| 33351 | Metalworking machinery mfg | 1998.. 247 807 1997.. 243 399 | 12 146 254 11 931 596 | 10 013 223 9 851 973 | 2 133 031 2 079 623 | 1 X |
| 333511 | Industrial mold mfg | 1998.. 49 186 1997.. 48 657 | 2 484 428 2 493 694 | 2 074 642 2 088 950 | 409 785 404 744 | 1 X |
| 333512 | Machine tool (metal cutting types) mfg | 1998.. 27 541 1997.. 29 347 | 1 477 484 1 564 097 | 1 197 427 1 266 908 | 280 057 297 189 | 1 X |
| 333513 | Machine tool (metal forming types) mfg | 1998.. 15 110 1997.. 14 185 | 790 862 739 628 | 638 908 598 606 | 151 954 141 022 | 2 X |
| 333514 | Special die & tool, die set, jig, & fixture mfg .. | 1998.. 82 715 1997.. 80 113 | 3 938 895 3 861 954 | 3 293 355 3 229 765 | 645 540 632 189 | 1 X |
| 333515 | Cutting tool & machine tool accessory mfg .. | 1998.. 49 923 1997.. 47 925 | 2 128 068 2 030 877 | 1 715 486 1 643 142 | 412 582 387 735 | 1 X |
| 333516 | Rolling mill machinery & equipment mfg | 1998.. 4 330 1997.. 4 149 | 221 323 206 589 | 180 661 167 312 | 40 661 39 277 | 5 X |

See footnotes at end of table.

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| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|-----------------------------------------------------------------------|------------------------|--------------------------|--------------------------|--------------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 333 | Machinery mfg—Con. | | | | | |
| 3335 | Metalworking machinery mfg—Con. | | | | | |
| 33351 | Metalworking machinery mfg—Con. | | | | | |
| 333518 | Other metalworking machinery mfg | 19 004 1997.. | 1 105 196 1 034 757 | 912 744 857 290 | 192 452 177 467 | 3 X |
| 3336 | Engine, turbine, & power transmission equipment mfg | 111 723 1997.. | 6 058 996 6 005 786 | 4 683 754 4 642 811 | 1 375 243 1 362 975 | 1 X |
| 33361 | Engine, turbine, & power transmission equipment mfg | 111 723 1997.. | 6 058 996 6 005 786 | 4 683 754 4 642 811 | 1 375 243 1 362 975 | 1 X |
| 333611 | Turbine & turbine generator set unit mfg | 18 192 1997.. | 1 068 327 1 155 521 | 843 601 910 316 | 224 726 245 205 | 1 X |
| 333612 | Speed changer, industrial high-speed drive, & gear mfg | 15 860 1997.. | 770 957 757 018 | 611 306 598 017 | 159 651 159 001 | 1 X |
| 333613 | Mechanical power transmission equipment mfg | 21 744 1997.. | 1 007 654 981 464 | 789 728 770 962 | 217 926 210 502 | 1 X |
| 333618 | Other engine equipment mfg | 55 926 1997.. | 3 212 059 3 111 783 | 2 439 118 2 363 516 | 772 940 748 267 | 1 X |
| 3339 | Other general-purpose machinery mfg | 363 072 1997.. | 17 082 490 16 593 850 | 13 678 262 13 294 206 | 3 404 228 3 299 644 | 1 X |
| 33391 | Pump & compressor mfg | 70 708 1997.. | 3 462 570 3 309 700 | 2 727 578 2 614 706 | 734 993 694 994 | 2 X |
| 333911 | Pump & pumping equipment mfg | 38 324 1997.. | 1 926 434 1 785 410 | 1 529 304 1 422 919 | 397 130 362 491 | 3 X |
| 333912 | Air & gas compressor mfg | 25 949 1997.. | 1 214 287 1 202 247 | 946 691 940 349 | 267 596 261 898 | 2 X |
| 333913 | Measuring & dispensing pump mfg | 24 821 1997.. | 6 435 6 824 | 321 849 322 043 | 70 266 70 605 | 2 X |
| 33392 | Material handling equipment mfg | 94 659 1997.. | 4 290 736 92 907 | 3 455 351 4 157 703 | 835 385 3 338 808 | 1 X |
| 333921 | Elevator & moving stairway mfg | 9 489 1997.. | 414 813 9 442 | 333 280 428 381 | 81 533 87 856 | 4 X |
| 333922 | Conveyor & conveying equipment mfg | 39 260 1997.. | 1 916 740 39 498 | 1 554 882 1 898 030 | 361 857 1 534 627 | 3 X |
| 333923 | Overhead traveling crane, hoist, & monorail system mfg | 19 045 1997.. | 785 650 721 580 | 619 978 569 888 | 165 671 151 692 | 1 X |
| 333924 | Industrial truck, tractor, trailer, & stacker machinery mfg | 26 865 1997.. | 1 173 534 1 109 712 | 947 210 893 768 | 226 324 215 944 | 1 X |
| 33399 | All other general-purpose machinery mfg | 197 705 1997.. | 9 329 183 9 126 447 | 7 495 333 7 340 692 | 1 833 850 1 785 755 | 1 X |
| 333991 | Power-driven handtool mfg | 195 841 1997.. | 16 793 16 816 | 553 440 676 296 | 156 015 531 378 | 1 X |
| 333992 | Welding & soldering equipment mfg | 22 099 1997.. | 1 095 535 22 505 | 896 441 1 114 116 | 199 094 195 936 | 1 X |
| 333993 | Packaging machinery mfg | 32 470 1997.. | 1 626 440 32 338 | 1 318 063 1 589 834 | 308 378 301 316 | 2 X |
| 333994 | Industrial process furnace & oven mfg | 17 939 1997.. | 830 003 17 585 | 670 209 814 784 | 159 794 657 191 | 2 X |
| 333995 | Fluid power cylinder & actuator mfg | 24 471 1997.. | 1 239 333 23 265 | 959 205 1 181 367 | 280 128 906 388 | 1 X |
| 333996 | Fluid power pump & motor mfg | 16 934 1997.. | 847 028 15 963 | 669 263 793 647 | 274 979 625 065 | 1 X |
| 333997 | Scale & balance (except laboratory) mfg | 4 674 1997.. | 192 517 4 871 | 151 460 191 180 | 168 582 148 755 | 6 X |
| 333999 | All other miscellaneous general-purpose machinery mfg | 62 324 1997.. | 2 788 872 62 498 | 2 277 253 2 765 223 | 511 620 500 006 | 1 X |
| 334 | Computer & electronic product mfg | 1 687 323 1 695 165 | 91 584 384 89 683 293 | 74 296 424 72 635 078 | 17 287 960 17 048 215 | 1 X |
| 3341 | Computer & peripheral equipment mfg | 240 829 241 119 | 13 786 557 13 434 102 | 11 335 167 10 994 784 | 2 451 390 2 439 318 | 2 X |
| 33411 | Computer & peripheral equipment mfg | 240 829 241 119 | 13 786 557 13 434 102 | 11 335 167 10 994 784 | 2 451 390 2 439 318 | 2 X |
| 334111 | Electronic computer mfg | 96 782 100 094 | 5 198 606 5 248 010 | 4 331 484 4 282 451 | 867 122 965 559 | 1 X |
| 334112 | Computer storage device mfg | 44 182 41 123 | 2 503 124 2 298 295 | 2 014 924 1 871 113 | 488 200 427 182 | 1 X |
| 334113 | Computer terminal mfg | 5 565 5 764 | 271 679 303 503 | 227 007 253 087 | 44 671 50 416 | 5 X |
| 334119 | Other computer peripheral equipment mfg | 94 300 94 138 | 5 813 149 5 584 294 | 4 761 752 4 588 133 | 1 051 396 996 161 | 4 X |
| 3342 | Communications equipment mfg | 286 423 294 495 | 17 029 899 16 852 332 | 13 829 089 13 711 330 | 3 200 810 3 141 002 | 1 X |
| 33421 | Telephone apparatus mfg | 102 170 104 372 | 6 628 737 6 550 087 | 5 350 793 5 335 174 | 1 277 944 1 214 913 | 1 X |
| 334210 | Telephone apparatus mfg | 102 170 104 372 | 6 628 737 6 550 087 | 5 350 793 5 335 174 | 1 277 944 1 214 913 | 1 X |
| 33422 | Radio & TV broadcasting & wireless communications equipment mfg | 159 359 165 254 | 9 244 702 9 205 513 | 7 533 328 7 476 108 | 1 711 374 1 729 405 | 1 X |
| 334220 | Radio & TV broadcasting & wireless communications equipment mfg | 159 359 165 254 | 9 244 702 9 205 513 | 7 533 328 7 476 108 | 1 711 374 1 729 405 | 1 X |
| 33429 | Other communications equipment mfg | 24 894 24 869 | 1 156 460 1 096 732 | 944 968 900 048 | 211 492 196 684 | 1 X |
| 334290 | Other communications equipment mfg | 24 894 24 869 | 1 156 460 1 096 732 | 944 968 900 048 | 211 492 196 684 | 1 X |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

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| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|------------------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 334 | Computer & electronic product mfg—Con. | | | | | |
| 3343 | Audio & video equipment mfg..... | 1998.. | 32 648 | 1 205 479 | 961 481 | 243 998 |
| | | 1997.. | 30 431 | 1 144 955 | 912 534 | 232 421 |
| 33431 | Audio & video equipment mfg..... | 1998.. | 32 648 | 1 205 479 | 961 481 | 243 998 |
| | | 1997.. | 30 431 | 1 144 955 | 912 534 | 232 421 |
| 334310 | Audio & video equipment mfg..... | 1998.. | 32 648 | 1 205 479 | 961 481 | 243 998 |
| | | 1997.. | 30 431 | 1 144 955 | 912 534 | 232 421 |
| 3344 | Semiconductor & other electronic component mfg .. | 1998.. | 584 234 | 27 629 095 | 22 476 327 | 5 152 768 |
| | | 1997.. | 589 015 | 27 351 510 | 22 264 440 | 5 087 070 |
| 33441 | Semiconductor & other electronic component mfg .. | 1998.. | 584 234 | 27 629 095 | 22 476 327 | 5 152 768 |
| | | 1997.. | 589 015 | 27 351 510 | 22 264 440 | 5 087 070 |
| 334411 | Electron tube mfg .. | 1998.. | 21 876 | 973 352 | 755 378 | 217 974 |
| | | 1997.. | 22 089 | 958 244 | 745 316 | 212 928 |
| 334412 | Bare printed circuit board mfg .. | 1998.. | 79 972 | 2 941 576 | 2 442 156 | 499 420 |
| | | 1997.. | 76 194 | 2 775 716 | 2 307 786 | 467 930 |
| 334413 | Semiconductor & related device mfg .. | 1998.. | 202 858 | 12 908 074 | 10 473 275 | 2 434 799 |
| | | 1997.. | 199 706 | 12 396 635 | 10 122 645 | 2 273 990 |
| 334414 | Electronic capacitor mfg .. | 1998.. | 17 791 | 631 253 | 503 381 | 127 872 |
| | | 1997.. | 18 882 | 662 567 | 531 259 | 131 308 |
| 334415 | Electronic resistor mfg .. | 1998.. | 11 317 | 372 124 | 300 133 | 71 991 |
| | | 1997.. | 11 964 | 387 291 | 314 045 | 73 246 |
| 334416 | Electronic coil, transformer, & other inductor mfg .. | 1998.. | 19 105 | 576 578 | 468 390 | 108 188 |
| | | 1997.. | 19 324 | 561 838 | 457 404 | 104 434 |
| 334417 | Electronic connector mfg .. | 1998.. | 39 509 | 1 494 800 | 1 202 768 | 292 032 |
| | | 1997.. | 37 617 | 1 467 482 | 1 172 969 | 294 513 |
| 334418 | Printed circuit assembly (electronic assembly) mfg .. | 1998.. | 101 922 | 4 304 629 | 3 541 699 | 762 931 |
| | | 1997.. | 111 407 | 4 765 693 | 3 853 852 | 911 841 |
| 334419 | Other electronic component mfg .. | 1998.. | 89 883 | 3 426 708 | 2 789 145 | 637 562 |
| | | 1997.. | 91 832 | 3 376 044 | 2 759 164 | 616 880 |
| 3345 | Navigational, measuring, medical, & control instruments mfg..... | 1998.. | 485 308 | 29 565 392 | 23 761 463 | 5 803 930 |
| | | 1997.. | 485 179 | 28 595 120 | 22 868 227 | 5 726 893 |
| 33451 | Navigational, measuring, medical, & control instruments mfg..... | 1998.. | 485 308 | 29 565 392 | 23 761 463 | 5 803 930 |
| | | 1997.. | 485 179 | 28 595 120 | 22 868 227 | 5 726 893 |
| 334510 | Electromedical & electrotherapeutic apparatus mfg .. | 1998.. | 55 495 | 3 222 691 | 2 691 316 | 531 375 |
| | | 1997.. | 55 231 | 3 181 321 | 2 644 570 | 536 751 |
| 334511 | Search, detection, navigation, & guidance instrument mfg .. | 1998.. | 187 997 | 12 856 320 | 10 246 405 | 2 609 915 |
| | | 1997.. | 187 666 | 12 615 546 | 9 954 915 | 2 660 631 |
| 334512 | Automatic environmental control mfg .. | 1998.. | 20 158 | 843 517 | 658 533 | 184 983 |
| | | 1997.. | 21 470 | 858 755 | 666 464 | 192 291 |
| 334513 | Industrial process control instrument mfg .. | 1998.. | 47 390 | 2 495 643 | 2 041 235 | 454 408 |
| | | 1997.. | 49 050 | 2 461 081 | 1 997 579 | 463 502 |
| 334514 | Totalizing fluid meter & counting device mfg .. | 1998.. | 16 973 | 914 805 | 713 524 | 201 281 |
| | | 1997.. | 17 390 | 898 490 | 683 294 | 215 196 |
| 334515 | Electricity measuring & testing instrument mfg .. | 1998.. | 64 692 | 4 125 800 | 3 278 329 | 847 471 |
| | | 1997.. | 63 658 | 3 752 583 | 3 019 508 | 733 075 |
| 334516 | Analytical laboratory instrument mfg .. | 1998.. | 36 291 | 2 173 774 | 1 767 733 | 406 041 |
| | | 1997.. | 36 219 | 2 105 998 | 1 703 175 | 402 823 |
| 334517 | Irradiation apparatus mfg .. | 1998.. | 13 437 | 798 578 | 656 648 | 141 931 |
| | | 1997.. | 13 714 | 786 841 | 644 714 | 142 127 |
| 334518 | Watch, clock, & part mfg .. | 1998.. | 6 709 | 254 678 | 202 714 | 51 964 |
| | | 1997.. | 6 333 | 225 441 | 178 487 | 46 954 |
| 334519 | Other measuring & controlling device mfg .. | 1998.. | 36 166 | 1 879 587 | 1 505 027 | 374 560 |
| | | 1997.. | 34 448 | 1 709 064 | 1 375 521 | 333 543 |
| 3346 | Mfg & reproducing magnetic & optical media..... | 1998.. | 57 880 | 2 367 961 | 1 932 897 | 435 064 |
| | | 1997.. | 54 926 | 2 305 274 | 1 883 763 | 421 511 |
| 33461 | Mfg & reproducing magnetic & optical media..... | 1998.. | 57 880 | 2 367 961 | 1 932 897 | 435 064 |
| | | 1997.. | 54 926 | 2 305 274 | 1 883 763 | 421 511 |
| 334611 | Software reproducing | 1998.. | 11 396 | 428 702 | 359 577 | 69 125 |
| | | 1997.. | 8 027 | 375 173 | 310 933 | 64 240 |
| 334612 | Prerecorded CD (except software), tape, & record reproducing | 1998.. | 26 756 | 1 022 219 | 838 159 | 184 060 |
| | | 1997.. | 25 554 | 915 265 | 756 860 | 158 405 |
| 334613 | Magnetic & optical recording media mfg .. | 1998.. | 19 728 | 917 040 | 735 161 | 181 879 |
| | | 1997.. | 21 345 | 1 014 836 | 815 970 | 198 866 |
| 335 | Electrical equipment, appliance, & component mfg .. | 1998.. | 601 099 | 25 220 863 | 19 710 740 | 5 510 124 |
| | | 1997.. | 594 259 | 24 234 760 | 18 957 344 | 5 277 416 |
| 3351 | Electric lighting equipment mfg..... | 1998.. | 73 927 | 2 777 520 | 2 212 396 | 565 124 |
| | | 1997.. | 74 960 | 2 765 812 | 2 203 938 | 561 874 |
| 33511 | Electric lamp bulb & part mfg .. | 1998.. | 16 004 | 749 494 | 560 394 | 189 100 |
| | | 1997.. | 15 903 | 760 947 | 574 696 | 186 251 |
| 335110 | Electric lamp bulb & part mfg .. | 1998.. | 16 004 | 749 494 | 560 394 | 189 100 |
| | | 1997.. | 15 903 | 760 947 | 574 696 | 186 251 |
| 33512 | Lighting fixture mfg .. | 1998.. | 57 923 | 2 028 026 | 1 652 002 | 376 024 |
| | | 1997.. | 59 057 | 2 004 865 | 1 629 242 | 375 623 |
| 335121 | Residential electric lighting fixture mfg .. | 1998.. | 18 212 | 560 861 | 469 851 | 91 009 |
| | | 1997.. | 17 685 | 515 387 | 430 538 | 84 849 |
| 335122 | Commercial/industrial/institutional electric lighting fixture mfg..... | 1998.. | 22 732 | 807 146 | 651 408 | 155 739 |
| | | 1997.. | 23 090 | 811 134 | 657 341 | 153 793 |
| 335129 | Other lighting equipment mfg .. | 1998.. | 16 978 | 660 019 | 530 743 | 129 276 |
| | | 1997.. | 18 282 | 678 344 | 541 363 | 136 981 |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|--------------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 335 | Electrical equipment, appliance, & component mfg—Con. | | | | | |
| 3352 | Household appliance mfg | 99 794 | 4 093 460 | 3 101 098 | 992 362 | 1 |
| 33521 | Small electrical appliance mfg | 97 384 | 3 878 063 | 2 923 925 | 954 138 | X |
| 335211 | Electric housewares & household fan mfg | 25 973 | 946 729 | 728 669 | 218 059 | 1 |
| 335212 | Household vacuum cleaner mfg | 27 595 | 971 855 | 751 887 | 219 968 | X |
| 33522 | Major appliance mfg | 15 746 | 484 659 | 377 395 | 107 264 | 1 |
| 335221 | Household cooking appliance mfg | 17 058 | 525 830 | 411 389 | 114 441 | X |
| 335222 | Household refrigerator & home freezer mfg | 10 226 | 462 070 | 361 274 | 110 795 | 1 |
| 335224 | Household laundry equipment mfg | 10 537 | 446 025 | 340 498 | 105 527 | X |
| 335228 | Other major household appliance mfg | 73 822 | 3 146 732 | 2 372 428 | 774 303 | 1 |
| 33522 | Household cooking appliance mfg | 69 789 | 2 906 208 | 2 172 038 | 734 170 | X |
| 335221 | Household refrigerator & home freezer mfg | 18 668 | 681 524 | 539 741 | 141 782 | 8 |
| 335222 | Household laundry equipment mfg | 17 543 | 611 876 | 480 836 | 131 040 | X |
| 335224 | Household laundry equipment mfg | 25 177 | 1 166 739 | 846 036 | 320 703 | 1 |
| 335228 | Other major household appliance mfg | 24 597 | 1 117 658 | 801 717 | 315 941 | X |
| 33522 | Household laundry equipment mfg | 16 753 | 747 201 | 565 508 | 181 693 | 1 |
| 33522 | Other major household appliance mfg | 14 801 | 639 435 | 480 076 | 159 359 | X |
| 335228 | Other major household appliance mfg | 13 224 | 551 268 | 421 143 | 130 125 | 1 |
| 33522 | Other major household appliance mfg | 12 848 | 537 239 | 409 409 | 127 830 | X |
| 3353 | Electrical equipment mfg | 208 113 | 8 967 868 | 7 000 266 | 1 967 602 | 2 |
| 33531 | Electrical equipment mfg | 210 628 | 8 799 010 | 6 879 392 | 1 919 618 | X |
| 335311 | Power, distribution, & specialty transformer mfg | 208 113 | 8 967 868 | 7 000 266 | 1 967 602 | 2 |
| 335311 | Power, distribution, & specialty transformer mfg | 210 628 | 8 799 010 | 6 879 392 | 1 919 618 | X |
| 335312 | Motor & generator mfg | 28 145 | 1 039 711 | 820 270 | 219 441 | 10 |
| 335312 | Motor & generator mfg | 26 920 | 1 040 195 | 826 826 | 213 369 | X |
| 335313 | Switchgear & switchboard apparatus mfg | 70 293 | 2 774 236 | 2 123 613 | 650 623 | 3 |
| 335313 | Switchgear & switchboard apparatus mfg | 74 595 | 2 842 535 | 2 182 005 | 660 530 | X |
| 335314 | Relay & industrial control mfg | 42 225 | 1 964 985 | 1 514 184 | 450 801 | 3 |
| 335314 | Relay & industrial control mfg | 40 906 | 1 859 341 | 1 443 658 | 415 683 | X |
| 335314 | Relay & industrial control mfg | 67 450 | 3 188 936 | 2 542 199 | 646 737 | 1 |
| 335314 | Relay & industrial control mfg | 68 207 | 3 056 939 | 2 426 903 | 630 036 | X |
| 3359 | Other electrical equipment & component mfg | 219 265 | 9 382 015 | 7 396 980 | 1 985 035 | 1 |
| 33591 | Battery mfg | 211 287 | 8 791 875 | 6 950 089 | 1 841 786 | X |
| 335911 | Storage battery mfg | 31 197 | 1 405 396 | 1 082 269 | 323 127 | 1 |
| 335912 | Primary battery mfg | 32 205 | 1 384 894 | 1 071 046 | 313 848 | X |
| 335912 | Primary battery mfg | 22 441 | 1 010 572 | 773 814 | 236 758 | 1 |
| 335912 | Primary battery mfg | 23 288 | 1 023 781 | 789 579 | 234 202 | X |
| 33592 | Communication & energy wire & cable mfg | 8 756 | 394 824 | 308 455 | 86 369 | 1 |
| 33592 | Communication & energy wire & cable mfg | 8 917 | 361 113 | 281 467 | 79 646 | X |
| 33592 | Communication & energy wire & cable mfg | 56 181 | 2 568 365 | 2 005 692 | 562 674 | 1 |
| 335921 | Fiber optic cable mfg | 54 856 | 2 419 803 | 1 897 515 | 522 288 | X |
| 335921 | Fiber optic cable mfg | 8 949 | 503 870 | 388 751 | 115 120 | 1 |
| 335929 | Other communication & energy wire mfg | 8 589 | 470 112 | 364 654 | 105 458 | X |
| 335929 | Other communication & energy wire mfg | 47 232 | 2 064 495 | 1 616 941 | 447 554 | 1 |
| 33593 | Wiring device mfg | 46 267 | 1 949 691 | 1 532 861 | 416 830 | X |
| 33593 | Wiring device mfg | 71 562 | 2 795 010 | 2 209 806 | 585 204 | 1 |
| 335931 | Current-carrying wiring device mfg | 68 447 | 2 631 937 | 2 080 658 | 551 279 | X |
| 335931 | Current-carrying wiring device mfg | 46 637 | 1 762 793 | 1 389 097 | 373 695 | 1 |
| 335932 | Noncurrent-carrying wiring device mfg | 44 907 | 1 648 592 | 1 293 583 | 355 009 | X |
| 33599 | All other electrical equipment & component mfg | 24 925 | 1 032 217 | 820 708 | 211 509 | 1 |
| 335991 | Carbon & graphite product mfg | 23 540 | 983 345 | 787 075 | 196 270 | X |
| 335991 | Carbon & graphite product mfg | 60 325 | 2 613 244 | 2 099 214 | 514 031 | 1 |
| 335991 | Carbon & graphite product mfg | 55 779 | 2 355 241 | 1 900 870 | 454 371 | X |
| 335991 | Carbon & graphite product mfg | 10 856 | 539 195 | 408 514 | 130 681 | 2 |
| 335999 | All other miscellaneous electrical equipment & component mfg | 10 931 | 535 336 | 407 673 | 127 663 | X |
| 336 | Transportation equipment mfg | 49 469 | 2 074 049 | 1 690 700 | 383 349 | 1 |
| 336 | Transportation equipment mfg | 44 848 | 1 819 905 | 1 493 197 | 326 708 | X |
| 336 | Transportation equipment mfg | 1 905 683 | 105 606 851 | 82 410 293 | 23 196 558 | 1 |
| 336 | Transportation equipment mfg | 1 851 478 | 104 405 794 | 79 843 003 | 24 562 791 | X |
| 3361 | Motor vehicle mfg | 233 324 | 17 074 173 | 12 950 694 | 4 123 480 | 1 |
| 33611 | Automobile & light duty motor vehicle mfg | 236 052 | 18 292 847 | 13 016 981 | 5 275 866 | X |
| 336111 | Automobile mfg | 199 942 | 15 201 240 | 11 518 933 | 3 682 307 | 1 |
| 336112 | Light truck & utility vehicle mfg | 207 838 | 16 645 596 | 11 804 330 | 4 841 266 | X |
| 33612 | Heavy duty truck mfg | 109 196 | 8 092 613 | 6 054 334 | 2 038 279 | 1 |
| 33612 | Heavy duty truck mfg | 113 820 | 8 981 236 | 6 404 445 | 2 576 791 | X |
| 33612 | Heavy duty truck mfg | 90 746 | 7 108 626 | 5 464 598 | 1 644 028 | 1 |
| 33612 | Heavy duty truck mfg | 94 018 | 7 664 360 | 5 399 885 | 2 264 475 | X |
| 33612 | Heavy duty truck mfg | 33 382 | 1 872 934 | 1 431 761 | 441 173 | 1 |
| 33612 | Heavy duty truck mfg | 28 214 | 1 647 251 | 1 212 651 | 434 600 | X |
| 33612 | Heavy duty truck mfg | 33 382 | 1 872 934 | 1 431 761 | 441 173 | 1 |
| 33612 | Heavy duty truck mfg | 28 214 | 1 647 251 | 1 212 651 | 434 600 | X |
| 3362 | Motor vehicle body & trailer mfg | 131 427 | 4 460 356 | 3 676 897 | 783 458 | 1 |
| 33621 | Motor vehicle body & trailer mfg | 125 574 | 4 173 565 | 3 392 158 | 783 458 | X |
| 336211 | Motor vehicle body mfg | 131 427 | 4 460 356 | 3 676 897 | 783 458 | 1 |
| 336211 | Motor vehicle body mfg | 125 574 | 4 173 565 | 3 392 158 | 781 407 | X |
| 336212 | Truck trailer mfg | 44 559 | 1 563 059 | 1 295 009 | 268 050 | 3 |
| 336212 | Truck trailer mfg | 43 399 | 1 516 037 | 1 241 259 | 274 778 | X |
| 336212 | Truck trailer mfg | 32 992 | 1 147 500 | 932 615 | 214 885 | 2 |
| 336213 | Motor home mfg | 30 678 | 1 077 257 | 836 590 | 240 667 | X |
| 336213 | Motor home mfg | 18 608 | 667 493 | 552 243 | 115 250 | 1 |
| 336214 | Travel trailer & camper mfg | 18 086 | 609 866 | 507 700 | 102 166 | X |
| 336214 | Travel trailer & camper mfg | 35 268 | 1 082 303 | 897 030 | 185 274 | 2 |
| 3363 | Motor vehicle parts mfg | 33 411 | 970 405 | 806 609 | 163 796 | X |
| 3363 | Motor vehicle parts mfg | 802 612 | 41 024 541 | 31 675 440 | 9 349 101 | 1 |
| 3363 | Motor vehicle parts mfg | 788 210 | 41 468 737 | 31 187 706 | 10 281 031 | X |
| 33631 | Motor vehicle gasoline engine & engine parts mfg | 98 674 | 5 497 522 | 4 220 259 | 1 277 263 | 1 |
| 33631 | Motor vehicle gasoline engine & engine parts mfg | 98 113 | 5 525 111 | 4 189 632 | 1 335 479 | X |
| 336311 | Carburetor, piston, piston ring, & valve mfg | 17 469 | 901 818 | 702 127 | 199 691 | 3 |
| 336312 | Gasoline engine & engine parts mfg | 17 241 | 867 001 | 663 961 | 203 040 | X |
| 336312 | Gasoline engine & engine parts mfg | 81 206 | 4 595 704 | 3 518 133 | 1 077 571 | 1 |
| 336312 | Gasoline engine & engine parts mfg | 80 672 | 4 658 110 | 3 525 671 | 1 132 439 | X |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|-------------------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 336 | Transportation equipment mfg—Con. | | | | | |
| 3363 | Motor vehicle parts mfg—Con. | | | | | |
| 33632 | Motor vehicle electrical & electronic equipment mfg | 1998.. | 114 394 | 4 653 224 | 3 607 907 | 1 045 317 |
| | | 1997.. | 111 999 | 4 909 077 | 3 682 944 | 1 226 133 |
| 336321 | Vehicular lighting equipment mfg | 1998.. | 15 221 | 774 582 | 589 727 | 184 855 |
| | | 1997.. | 16 506 | 863 704 | 628 534 | 235 170 |
| 336322 | Other motor vehicle electrical & electronic equipment mfg | 1998.. | 99 173 | 3 878 642 | 3 018 180 | 860 462 |
| | | 1997.. | 95 493 | 4 045 373 | 3 054 410 | 990 963 |
| 33633 | Motor vehicle steering & suspension component (except spring) mfg | 1998.. | 47 469 | 2 961 126 | 2 262 317 | 698 809 |
| | | 1997.. | 48 567 | 3 162 312 | 2 336 701 | 825 611 |
| 336330 | Motor vehicle steering & suspension component (except spring) mfg | 1998.. | 47 469 | 2 961 126 | 2 262 317 | 698 809 |
| | | 1997.. | 48 567 | 3 162 312 | 2 336 701 | 825 611 |
| 33634 | Motor vehicle brake system mfg | 1998.. | 45 929 | 2 047 491 | 1 555 623 | 491 868 |
| | | 1997.. | 43 425 | 2 011 960 | 1 513 625 | 498 335 |
| 336340 | Motor vehicle brake system mfg | 1998.. | 45 929 | 2 047 491 | 1 555 623 | 491 868 |
| | | 1997.. | 43 425 | 2 011 960 | 1 513 625 | 498 335 |
| 33635 | Motor vehicle transmission & power train parts mfg | 1998.. | 111 548 | 7 382 616 | 5 675 008 | 1 707 608 |
| | | 1997.. | 110 235 | 7 344 065 | 5 490 165 | 1 853 900 |
| 336350 | Motor vehicle transmission & power train parts mfg | 1998.. | 111 548 | 7 382 616 | 5 675 008 | 1 707 608 |
| | | 1997.. | 110 235 | 7 344 065 | 5 490 165 | 1 853 900 |
| 33636 | Motor vehicle seating & interior trim mfg | 1998.. | 48 419 | 2 063 732 | 1 628 899 | 434 833 |
| | | 1997.. | 47 015 | 1 968 179 | 1 515 321 | 452 858 |
| 336360 | Motor vehicle seating & interior trim mfg | 1998.. | 48 419 | 2 063 732 | 1 628 899 | 434 833 |
| | | 1997.. | 47 015 | 1 968 179 | 1 515 321 | 452 858 |
| 33637 | Motor vehicle metal stamping | 1998.. | 123 570 | 7 032 131 | 5 471 211 | 1 560 920 |
| | | 1997.. | 126 905 | 7 580 235 | 5 647 964 | 1 932 271 |
| 336370 | Motor vehicle metal stamping | 1998.. | 123 570 | 7 032 131 | 5 471 211 | 1 560 920 |
| | | 1997.. | 126 905 | 7 580 235 | 5 647 964 | 1 932 271 |
| 33639 | Other motor vehicle parts mfg | 1998.. | 212 608 | 9 386 700 | 7 254 217 | 2 132 483 |
| | | 1997.. | 201 951 | 8 967 798 | 6 811 354 | 2 156 444 |
| 336391 | Motor vehicle air-conditioning mfg | 1998.. | 21 310 | 1 334 116 | 999 087 | 335 029 |
| | | 1997.. | 21 522 | 1 479 610 | 1 053 943 | 425 667 |
| 336399 | All other motor vehicle parts mfg | 1998.. | 191 298 | 8 052 584 | 6 255 130 | 1 797 454 |
| | | 1997.. | 180 429 | 7 488 188 | 5 757 411 | 1 730 777 |
| 3364 | Aerospace product & parts mfg | 1998.. | 521 679 | 33 837 909 | 26 882 756 | 6 955 153 |
| | | 1997.. | 486 480 | 31 454 496 | 25 132 696 | 6 321 800 |
| 33641 | Aerospace product & parts mfg | 1998.. | 521 679 | 33 837 909 | 26 882 756 | 6 955 153 |
| | | 1997.. | 486 480 | 31 454 496 | 25 132 696 | 6 321 800 |
| 336411 | Aircraft mfg | 1998.. | 213 083 | 14 228 846 | 11 278 437 | 2 950 408 |
| | | 1997.. | 202 596 | 13 370 966 | 10 842 393 | 2 528 573 |
| 336412 | Aircraft engine & engine parts mfg | 1998.. | 85 801 | 5 511 807 | 4 346 011 | 1 165 796 |
| | | 1997.. | 83 877 | 5 394 079 | 4 280 732 | 1 113 347 |
| 336413 | Other aircraft part & auxiliary equipment mfg | 1998.. | 145 465 | 8 232 324 | 6 505 271 | 1 727 054 |
| | | 1997.. | 124 434 | 7 113 609 | 5 562 967 | 1 550 642 |
| 336414 | Guided missile & space vehicle mfg | 1998.. | 52 955 | 4 186 342 | 3 422 407 | 763 935 |
| | | 1997.. | 51 398 | 3 900 580 | 3 123 246 | 777 334 |
| 336415 | Guided missile & space vehicle propulsion unit & parts mfg | 1998.. | 16 685 | 1 234 145 | 978 396 | 255 749 |
| | | 1997.. | 17 738 | 1 305 427 | 1 031 920 | 273 507 |
| 336419 | Other guided missile & space vehicle parts & auxiliary equip mfg | 1998.. | 7 689 | 444 445 | 352 234 | 92 211 |
| | | 1997.. | 6 437 | 369 835 | 291 438 | 78 397 |
| 3365 | Railroad rolling stock mfg | 1998.. | 37 351 | 1 888 980 | 1 433 987 | 454 993 |
| | | 1997.. | 34 012 | 1 739 073 | 1 319 135 | 419 938 |
| 33651 | Railroad rolling stock mfg | 1998.. | 37 351 | 1 888 980 | 1 433 987 | 454 993 |
| | | 1997.. | 34 012 | 1 739 073 | 1 319 135 | 419 938 |
| 336510 | Railroad rolling stock mfg | 1998.. | 37 351 | 1 888 980 | 1 433 987 | 454 993 |
| | | 1997.. | 34 012 | 1 739 073 | 1 319 135 | 419 938 |
| 3366 | Ship & boat building | 1998.. | 137 912 | 5 522 732 | 4 350 350 | 1 172 382 |
| | | 1997.. | 138 904 | 5 547 501 | 4 396 251 | 1 151 250 |
| 33661 | Ship & boat building | 1998.. | 137 912 | 5 522 732 | 4 350 350 | 1 172 382 |
| | | 1997.. | 138 904 | 5 547 501 | 4 396 251 | 1 151 250 |
| 336611 | Ship building & repairing | 1998.. | 94 595 | 4 175 006 | 3 232 249 | 942 757 |
| | | 1997.. | 97 482 | 4 302 703 | 3 362 277 | 940 426 |
| 336612 | Boat building | 1998.. | 43 317 | 1 347 726 | 1 118 101 | 229 625 |
| | | 1997.. | 41 422 | 1 244 798 | 1 033 974 | 210 824 |
| 3369 | Other transportation equipment mfg | 1998.. | 41 379 | 1 798 159 | 1 440 168 | 357 991 |
| | | 1997.. | 42 246 | 1 729 575 | 1 398 076 | 331 499 |
| 33699 | Other transportation equipment mfg | 1998.. | 41 379 | 1 798 159 | 1 440 168 | 357 991 |
| | | 1997.. | 42 246 | 1 729 575 | 1 398 076 | 331 499 |
| 336991 | Motorcycle, bicycle, & parts mfg | 1998.. | 16 269 | 748 780 | 620 738 | 128 041 |
| | | 1997.. | 17 218 | 749 815 | 623 364 | 126 451 |
| 336992 | Military armored vehicle, tank, & tank component mfg | 1998.. | 5 091 | 362 367 | 259 094 | 103 273 |
| | | 1997.. | 5 822 | 354 586 | 268 623 | 85 963 |
| 336999 | All other transportation equipment mfg | 1998.. | 20 019 | 687 012 | 560 336 | 126 676 |
| | | 1997.. | 19 206 | 625 174 | 506 089 | 119 085 |
| 337 | Furniture & related product mfg | 1998.. | 631 636 | 19 804 539 | 16 185 101 | 3 619 438 |
| | | 1997.. | 606 794 | 18 418 896 | 15 034 218 | 3 384 678 |
| 3371 | Household & institutional furniture & kitchen cabinet mfg | 1998.. | 408 555 | 11 531 080 | 9 555 118 | 1 975 962 |
| | | 1997.. | 389 453 | 10 630 811 | 8 786 833 | 1 843 978 |
| 33711 | Wood kitchen cabinet & counter top mfg | 1998.. | 106 589 | 3 036 482 | 2 528 005 | 508 477 |
| | | 1997.. | 99 322 | 2 801 072 | 2 322 958 | 478 114 |
| 337110 | Wood kitchen cabinet & counter top mfg | 1998.. | 106 589 | 3 036 482 | 2 528 005 | 508 477 |
| | | 1997.. | 99 322 | 2 801 072 | 2 322 958 | 478 114 |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|----------------------------------------------------------------|---------------|------------------------|------------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 337 | Furniture & related product mfg—Con. | | | | | |
| 3371 | Household & institutional furniture & kitchen cabinet mfg—Con. | | | | | |
| 33712 | Household & institutional furniture mfg | 1998.. | 301 966 | 8 494 599 | 7 027 113 | 1 467 486 |
| | | 1997.. | 290 131 | 7 829 739 | 6 463 875 | 1 365 864 |
| 337121 | Upholstered household furniture mfg | 1998.. | 93 913 | 2 547 894 | 2 134 986 | 412 908 |
| | | 1997.. | 90 009 | 2 407 321 | 2 022 565 | 384 756 |
| 337122 | Nonupholstered wood household furniture mfg | 1998.. | 133 155 | 3 562 052 | 2 929 544 | 632 508 |
| | | 1997.. | 128 248 | 3 263 330 | 2 682 926 | 580 404 |
| 337124 | Metal household furniture mfg | 1998.. | 23 749 | 714 326 | 573 551 | 140 775 |
| | | 1997.. | 22 835 | 629 654 | 503 957 | 125 697 |
| 337125 | Household furniture (except wood & metal) mfg | 1998.. | 4 796 | 135 318 | 115 774 | 19 544 |
| | | 1997.. | 4 708 | 139 045 | 111 758 | 27 287 |
| 337127 | Institutional furniture mfg | 1998.. | 41 990 | 1 423 183 | 1 184 153 | 239 030 |
| | | 1997.. | 40 058 | 1 284 104 | 1 058 278 | 225 826 |
| 337129 | Wood television, radio, & sewing machine cabinet mfg | 1998.. | 4 364 | 111 825 | 89 105 | 22 721 |
| | | 1997.. | 4 273 | 106 285 | 84 391 | 21 894 |
| 3372 | Office furniture (including fixtures) mfg | 1998.. | 178 340 | 6 827 483 | 5 477 182 | 1 350 302 |
| | | 1997.. | 174 652 | 6 468 573 | 5 198 998 | 1 269 575 |
| 33721 | Office furniture (including fixtures) mfg | 1998.. | 178 340 | 6 827 483 | 5 477 182 | 1 350 302 |
| | | 1997.. | 174 652 | 6 468 573 | 5 198 998 | 1 269 575 |
| 337211 | Wood office furniture mfg | 1998.. | 31 502 | 1 004 741 | 822 380 | 182 361 |
| | | 1997.. | 30 641 | 958 122 | 781 220 | 176 902 |
| 337212 | Custom architectural woodwork & millwork mfg | 1998.. | 25 534 | 952 866 | 785 936 | 166 930 |
| | | 1997.. | 24 376 | 868 917 | 715 401 | 153 516 |
| 337214 | Office furniture (except wood) mfg | 1998.. | 46 303 | 2 259 574 | 1 725 322 | 534 252 |
| | | 1997.. | 44 222 | 2 097 125 | 1 621 167 | 475 958 |
| 337215 | Showcase, partition, shelving, & locker mfg | 1998.. | 75 002 | 2 610 302 | 2 143 544 | 466 758 |
| | | 1997.. | 75 413 | 2 544 409 | 2 081 210 | 463 199 |
| 3379 | Other furniture related product mfg | 1998.. | 44 741 | 1 445 975 | 1 152 801 | 293 174 |
| | | 1997.. | 42 689 | 1 319 512 | 1 048 387 | 271 125 |
| 33791 | Mattress mfg | 1998.. | 23 636 | 824 322 | 660 090 | 164 232 |
| | | 1997.. | 23 072 | 761 867 | 611 630 | 150 237 |
| 337910 | Mattress mfg | 1998.. | 23 636 | 824 322 | 660 090 | 164 232 |
| | | 1997.. | 23 072 | 761 867 | 611 630 | 150 237 |
| 33792 | Blind & shade mfg | 1998.. | 21 105 | 621 654 | 492 712 | 128 942 |
| | | 1997.. | 19 617 | 557 645 | 436 757 | 120 888 |
| 337920 | Blind & shade mfg | 1998.. | 21 105 | 621 654 | 492 712 | 128 942 |
| | | 1997.. | 19 617 | 557 645 | 436 757 | 120 888 |
| 339 | Miscellaneous mfg | 1998.. | 763 803 | 28 755 708 | 23 396 326 | 5 359 382 |
| | | 1997.. | 733 946 | 26 949 942 | 21 934 826 | 5 015 116 |
| 3391 | Medical equipment & supplies mfg | 1998.. | 319 890 | 14 164 366 | 11 365 899 | 2 798 468 |
| | | 1997.. | 296 330 | 12 761 104 | 10 247 977 | 2 513 127 |
| 33911 | Medical equipment & supplies mfg | 1998.. | 319 890 | 14 164 366 | 11 365 899 | 2 798 468 |
| | | 1997.. | 296 330 | 12 761 104 | 10 247 977 | 2 513 127 |
| 339111 | Laboratory apparatus & furniture mfg | 1998.. | 18 485 | 854 491 | 700 735 | 153 756 |
| | | 1997.. | 18 253 | 848 000 | 686 742 | 161 258 |
| 339112 | Surgical & medical instrument mfg | 1998.. | 110 869 | 5 433 242 | 4 388 288 | 1 044 954 |
| | | 1997.. | 107 130 | 5 117 207 | 4 128 530 | 988 677 |
| 339113 | Surgical appliance & supplies mfg | 1998.. | 93 938 | 4 460 578 | 3 508 003 | 952 575 |
| | | 1997.. | 85 315 | 3 750 026 | 2 980 530 | 769 496 |
| 339114 | Dental equipment & supplies mfg | 1998.. | 18 093 | 781 280 | 634 859 | 146 421 |
| | | 1997.. | 18 072 | 760 052 | 613 286 | 146 766 |
| 339115 | Ophthalmic goods mfg | 1998.. | 27 144 | 1 080 366 | 868 368 | 211 998 |
| | | 1997.. | 26 366 | 1 012 230 | 814 242 | 197 998 |
| 339116 | Dental laboratories | 1998.. | 51 362 | 1 554 410 | 1 265 646 | 288 764 |
| | | 1997.. | 41 194 | 1 273 589 | 1 024 647 | 248 942 |
| 3399 | Other miscellaneous mfg | 1998.. | 443 913 | 14 591 341 | 12 030 427 | 2 560 914 |
| | | 1997.. | 437 616 | 14 188 838 | 11 686 849 | 2 501 989 |
| 33991 | Jewelry & silverware mfg | 1998.. | 59 421 | 1 868 382 | 1 560 675 | 307 707 |
| | | 1997.. | 61 223 | 1 842 040 | 1 532 824 | 309 216 |
| 339911 | Jewelry (except costume) mfg | 1998.. | 33 122 | 1 059 187 | 895 518 | 163 668 |
| | | 1997.. | 34 773 | 1 054 084 | 886 562 | 167 522 |
| 339912 | Silverware & plated ware mfg | 1998.. | 6 364 | 253 502 | 209 400 | 44 101 |
| | | 1997.. | 6 481 | 227 970 | 187 166 | 40 804 |
| 339913 | Jewelers' material & lapidary work mfg | 1998.. | 6 080 | 169 752 | 140 583 | 29 169 |
| | | 1997.. | 5 396 | 164 092 | 132 940 | 31 152 |
| 339914 | Costume jewelry & novelty mfg | 1998.. | 13 855 | 385 942 | 315 173 | 70 769 |
| | | 1997.. | 14 573 | 395 894 | 326 156 | 69 738 |
| 33992 | Sporting & athletic goods mfg | 1998.. | 69 389 | 2 235 211 | 1 820 854 | 414 357 |
| | | 1997.. | 69 664 | 2 250 042 | 1 841 264 | 408 778 |
| 339920 | Sporting & athletic goods mfg | 1998.. | 69 389 | 2 235 211 | 1 820 854 | 414 357 |
| | | 1997.. | 69 664 | 2 250 042 | 1 841 264 | 408 778 |
| 33993 | Doll, toy, & game mfg | 1998.. | 33 338 | 1 047 418 | 860 471 | 186 947 |
| | | 1997.. | 32 693 | 1 016 205 | 830 345 | 185 860 |
| 339931 | Doll & stuffed toy mfg | 1998.. | 3 645 | 77 424 | 67 220 | 10 204 |
| | | 1997.. | 3 393 | 72 493 | 63 722 | 8 771 |
| 339932 | Game, toy, & children's vehicle mfg | 1998.. | 29 693 | 969 994 | 793 251 | 176 743 |
| | | 1997.. | 29 300 | 943 712 | 766 623 | 177 089 |
| 33994 | Office supplies (except paper) mfg | 1998.. | 28 617 | 998 553 | 810 047 | 188 506 |
| | | 1997.. | 30 138 | 985 389 | 790 191 | 195 198 |
| 339941 | Pen & mechanical pencil mfg | 1998.. | 9 308 | 381 438 | 305 747 | 75 691 |
| | | 1997.. | 8 394 | 332 192 | 261 580 | 70 612 |
| 339942 | Lead pencil & art good mfg | 1998.. | 7 619 | 261 311 | 207 329 | 53 982 |
| | | 1997.. | 7 990 | 249 975 | 195 586 | 54 389 |
| 339943 | Marking device mfg | 1998.. | 8 061 | 222 382 | 187 576 | 34 807 |
| | | 1997.. | 7 831 | 219 180 | 185 316 | 33 864 |
| 339944 | Carbon paper & inked ribbon mfg | 1998.. | 3 629 | 133 421 | 109 395 | 24 026 |
| | | 1997.. | 5 923 | 184 042 | 147 709 | 36 333 |

See footnotes at end of table.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | All employees | Compensation (\$1,000) | | | Relative standard error of estimate ¹ (percent) for column— |
|------------|---------------------------------------------|---------------|------------------------|-----------|-----------------------|------------------------------------------------------------------------|
| | | | Total | Payroll | Total fringe benefits | |
| | | A | B | C | D | |
| 339 | Miscellaneous mfg—Con. | | | | | |
| 3399 | Other miscellaneous mfg—Con. | | | | | |
| 33995 | Sign mfg | 1998.. | 84 260 | 2 867 157 | 2 426 297 | 440 861 |
| | | 1997.. | 83 052 | 2 829 410 | 2 386 738 | 442 672 |
| 339950 | Sign mfg | 1998.. | 84 260 | 2 867 157 | 2 426 297 | 440 861 |
| | | 1997.. | 83 052 | 2 829 410 | 2 386 738 | 442 672 |
| 33999 | All other miscellaneous mfg | 1998.. | 168 887 | 5 574 620 | 4 552 084 | 1 022 536 |
| | | 1997.. | 160 846 | 5 265 752 | 4 305 487 | 960 265 |
| 339991 | Gasket, packing, & sealing device mfg | 1998.. | 42 670 | 1 667 912 | 1 318 999 | 348 913 |
| | | 1997.. | 41 655 | 1 600 353 | 1 279 026 | 321 327 |
| 339992 | Musical instrument mfg | 1998.. | 14 680 | 515 897 | 429 306 | 86 591 |
| | | 1997.. | 13 411 | 440 215 | 363 022 | 77 193 |
| 339993 | Fastener, button, needle, & pin mfg..... | 1998.. | 7 980 | 257 743 | 211 529 | 46 213 |
| | | 1997.. | 7 842 | 248 007 | 206 148 | 41 859 |
| 339994 | Broom, brush, & mop mfg | 1998.. | 16 257 | 518 270 | 428 607 | 89 664 |
| | | 1997.. | 17 447 | 542 864 | 449 669 | 93 195 |
| 339995 | Burial casket mfg | 1998.. | 7 499 | 264 326 | 216 242 | 48 084 |
| | | 1997.. | 6 962 | 261 824 | 212 491 | 49 333 |
| 339999 | All other miscellaneous mfg | 1998.. | 79 801 | 2 350 472 | 1 947 402 | 403 070 |
| | | 1997.. | 73 529 | 2 172 489 | 1 795 131 | 377 358 |

¹Description of relative standard error of estimate is given in Appendix B. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note: 1997 data may differ from that published in the 1997 Census of Manufactures final industry series because of changes encountered in subsequent 1997 census review or revisions discovered during 1998 Annual Survey of Manufactures review.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|------------------------------------------------------|-------------------------------------------------------|----------------------------|--------------------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|------|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | C | | E | | |
| A | B | C | D | E | | | | | |
| 31-33 | Manufacturing | 1998.. 63 966 642 1997.. 65 102 177 | 822 418 926 829 332 874 | 38 640 679 38 832 853 | 111 938 550 92 601 756 | 25 325 963 26 269 324 | 1 X | 1 X | |
| 311 | Food mfg | 1998.. 5 647 103 1997.. 5 596 709 | 62 341 216 60 802 155 | 3 167 911 3 127 188 | 4 285 270 4 342 538 | 2 479 192 2 469 521 | 1 X | 1 X | |
| 3111 | Animal food mfg | 1998.. 279 807 1997.. 286 847 | 3 111 302 3 106 384 | 170 116 168 443 | 46 543 — | 109 692 118 404 | 2 X | 3 X | |
| 31111 | Animal food mfg | 1998.. 279 807 1997.. 286 847 | 3 111 302 3 106 384 | 170 116 168 443 | 46 543 — | 109 692 118 404 | 2 X | 3 X | |
| 311111 | Dog & cat food mfg | 1998.. 100 708 1997.. 99 026 | 1 086 656 1 037 227 | 56 628 54 005 | 6 608 — | 44 081 45 021 | 1 X | 2 X | |
| 311119 | Other animal food mfg | 1998.. 179 099 1997.. 187 821 | 2 024 646 2 069 157 | 113 488 114 438 | 39 935 — | 65 611 73 383 | 2 X | 4 X | |
| 3112 | Grain & oilseed milling | 1998.. 1 278 085 1997.. 1 236 366 | 13 389 893 14 239 142 | 588 409 630 081 | 2 780 536 2 764 730 | 689 676 606 285 | 1 X | 1 X | |
| 31121 | Flour milling & malt mfg | 1998.. 213 993 1997.. 207 050 | 3 087 137 3 025 354 | 161 771 156 996 | D D | 52 222 50 054 | 1 X | 3 X | |
| 311211 | Flour milling | 1998.. 146 977 1997.. 133 881 | 2 238 208 2 166 089 | 120 187 115 094 | 12 696 10 789 | 26 790 18 787 | 1 X | 3 X | |
| 311212 | Rice milling | 1998.. 32 346 1997.. 31 611 | 440 392 434 801 | 25 237 25 257 | D D | 7 109 6 354 | 4 X | 7 X | |
| 311213 | Malt mfg | 1998.. 34 670 1997.. 41 558 | 408 536 424 464 | 16 348 16 645 | D D | 18 322 24 913 | 3 X | 7 X | |
| 31122 | Starch & vegetable fats & oils mfg | 1998.. 974 155 1997.. 938 957 | 9 207 468 10 189 373 | 374 416 423 774 | 2 597 032 2 573 682 | 599 739 515 183 | 1 X | 1 X | |
| 311221 | Wet corn milling | 1998.. 599 952 1997.. 601 431 | 5 856 395 6 902 497 | 217 852 280 943 | 2 010 895 1 876 208 | 382 100 320 488 | 1 X | 1 X | |
| 311222 | Soybean processing | 1998.. 231 541 1997.. 201 293 | 1 715 237 1 627 095 | 81 056 72 647 | 557 873 637 139 | 150 484 128 646 | 1 X | 1 X | |
| 311223 | Other oilseed processing | 1998.. 46 562 1997.. 50 878 | 649 449 854 139 | 29 962 31 205 | D D | 16 600 19 673 | 2 X | 1 X | |
| 311225 | Fats & oils refining & blending | 1998.. 96 100 1997.. 85 355 | 986 386 805 642 | 45 546 38 979 | D D | 50 554 46 376 | 1 X | 1 X | |
| 31123 | Breakfast cereal mfg | 1998.. 89 938 1997.. 90 359 | 1 095 288 1 024 415 | 52 221 49 311 | D D | 37 716 41 048 | 1 X | 1 X | |
| 311230 | Breakfast cereal mfg | 1998.. 89 938 1997.. 90 359 | 1 095 288 1 024 415 | 52 221 49 311 | D D | 37 716 41 048 | 1 X | 1 X | |
| 3113 | Sugar & confectionery product mfg | 1998.. 401 345 1997.. 398 423 | 3 106 039 2 995 774 | 166 446 157 715 | 841 534 1 071 682 | 234 899 240 708 | 2 X | 1 X | |
| 31131 | Sugar mfg | 1998.. 231 498 1997.. 229 585 | 1 018 146 936 973 | 44 229 42 434 | 741 024 950 515 | 187 269 187 151 | 1 X | 2 X | |
| 311311 | Sugarcane mills | 1998.. 21 850 1997.. 28 337 | 166 625 140 010 | 9 044 9 472 | 273 532 224 453 | 12 807 18 865 | 6 X | 23 X | |
| 311312 | Cane sugar refining | 1998.. 55 928 1997.. 56 167 | 100 616 96 009 | 6 183 6 354 | 168 896 356 236 | 49 745 49 813 | 1 X | 1 X | |
| 311313 | Beet sugar mfg | 1998.. 153 719 1997.. 145 081 | 750 905 700 954 | 29 002 26 608 | 298 596 369 826 | 124 717 118 473 | 1 X | 1 X | |
| 31132 | Chocolate & confectionery mfg from cacao beans | 1998.. 39 719 1997.. 35 101 | 511 059 469 685 | 29 836 24 897 | S 957 | 9 882 10 204 | 9 X | 3 X | |
| 311320 | Chocolate & confectionery mfg from cacao beans | 1998.. 39 719 1997.. 35 101 | 511 059 469 685 | 29 836 24 897 | S 957 | 9 882 10 204 | 9 X | 3 X | |
| 31133 | Confectionery mfg from purchased chocolate | 1998.. 72 295 1997.. 75 678 | 925 017 970 641 | 52 407 52 805 | D D | 19 888 22 873 | 2 X | 2 X | |
| 311330 | Confectionery mfg from purchased chocolate | 1998.. 72 295 1997.. 75 678 | 925 017 970 641 | 52 407 52 805 | D D | 19 888 22 873 | 2 X | 2 X | |
| 31134 | Nonchocolate confectionery mfg | 1998.. 57 833 1997.. 58 059 | 651 816 618 475 | 39 973 37 579 | D D | 17 860 20 480 | 2 X | 2 X | |
| 311340 | Nonchocolate confectionery mfg | 1998.. 57 833 1997.. 58 059 | 651 816 618 475 | 39 973 37 579 | D D | 17 860 20 480 | 2 X | 2 X | |
| 3114 | Fruit & vegetable preserving & specialty food mfg .. | 1998.. 825 129 1997.. 781 727 | 9 885 326 8 286 876 | 487 278 437 394 | 433 301 337 286 | 337 851 344 333 | 1 X | 5 X | |
| 31141 | Frozen food mfg | 1998.. 426 632 1997.. 372 451 | 6 729 228 5 038 752 | 295 818 247 693 | 51 318 49 771 | 130 814 124 758 | 1 X | 3 X | |
| 311411 | Frozen fruit, juice, & vegetable mfg | 1998.. 300 382 1997.. 247 998 | 4 903 455 3 292 705 | 197 390 152 666 | 51 503 49 771 | 102 992 95 332 | 1 X | 4 X | |
| 311412 | Frozen specialty food mfg | 1998.. 126 251 1997.. 124 453 | 1 825 773 1 746 047 | 98 428 95 027 | S — | 27 823 29 426 | 1 X | 2 X | |
| 31142 | Fruit & vegetable canning, pickling, & drying | 1998.. 398 497 1997.. 409 276 | 3 156 098 3 248 124 | 191 460 189 701 | 381 983 287 515 | 207 037 219 575 | 1 X | 7 X | |
| 311421 | Fruit & vegetable canning | 1998.. 263 144 1997.. 255 871 | 1 958 163 2 001 492 | 125 302 122 914 | D D | 137 842 132 957 | 1 X | 2 X | |
| 311422 | Specialty canning | 1998.. 69 755 1997.. 69 355 | 602 046 632 243 | 33 685 34 022 | D D | 36 071 35 333 | 3 X | 2 X | |
| 311423 | Dried & dehydrated food mfg | 1998.. 65 598 1997.. 84 050 | 595 889 614 389 | 32 474 32 765 | S — | 33 124 51 285 | 1 X | 44 X | |
| 3115 | Dairy product mfg | 1998.. 604 403 1997.. 614 744 | 7 406 670 7 223 994 | 398 066 394 166 | 24 208 9 119 | 206 337 220 578 | 2 X | 2 X | |
| 31151 | Dairy product (except frozen) mfg | 1998.. 522 547 1997.. 532 986 | 6 236 644 6 034 069 | 329 262 323 800 | 24 208 9 119 | 193 285 209 186 | 2 X | 2 X | |
| 311511 | Fluid milk mfg | 1998.. 226 716 1997.. 230 034 | 2 753 242 2 679 934 | 164 463 160 999 | D D | 62 253 69 035 | 1 X | 4 X | |
| 311512 | Creamery butter mfg | 1998.. 9 274 1997.. 10 343 | 104 215 100 121 | 5 196 5 378 | D D | 4 078 4 965 | 2 X | 9 X | |
| 311513 | Cheese mfg | 1998.. 190 146 1997.. 187 662 | 2 315 124 2 182 105 | 107 811 104 217 | S — | 82 335 83 445 | 3 X | 2 X | |
| 311514 | Dry, condensed, & evaporated dairy product mfg | 1998.. 96 411 1997.. 104 947 | 1 064 063 1 071 909 | 51 793 53 206 | — — | 44 618 51 741 | 8 X | 6 X | |
| 31152 | Ice cream & frozen dessert mfg | 1998.. 81 856 1997.. 81 758 | 1 170 026 1 189 925 | 68 804 70 366 | — — | 13 052 11 392 | 5 X | 7 X | |
| 311520 | Ice cream & frozen dessert mfg | 1998.. 81 856 1997.. 81 758 | 1 170 026 1 189 925 | 68 804 70 366 | — — | 13 052 11 392 | 5 X | 7 X | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|--------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|------|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | C | | E | | |
| A | B | C | D | E | F | G | H | I | |
| 311 | Food mfg—Con. | | | | | | | | |
| 3116 | Meat product mfg | 1998.. | 1 100 036 | 14 026 464 | 682 237 | 4 644 | 417 799 | 1 1 | |
| | | 1997.. | 1 134 586 | 13 992 880 | 685 435 | 2 521 | 449 151 | X X | |
| 31161 | Animal slaughtering & processing | 1998.. | 1 100 036 | 14 026 464 | 682 237 | 4 644 | 417 799 | 1 1 | |
| | | 1997.. | 1 134 586 | 13 992 880 | 685 435 | 2 521 | 449 151 | X X | |
| 311611 | Animal (except poultry) slaughtering | 1998.. | 294 138 | 4 204 414 | 186 364 | D | 107 774 | 1 1 | |
| | | 1997.. | 337 749 | 4 751 145 | 212 764 | D | 124 985 | X X | |
| 311612 | Meat processed from carcasses | 1998.. | 306 420 | D | 181 804 | D | 124 616 | 2 1 | |
| | | 1997.. | 287 542 | D | 169 748 | D | 117 794 | X X | |
| 311613 | Rendering & meat byproduct processing | 1998.. | 136 022 | D | 48 061 | 623 | 87 961 | 1 6 | |
| | | 1997.. | 141 847 | D | 45 352 | 180 | 96 495 | X X | |
| 311615 | Poultry processing | 1998.. | 363 456 | 5 530 514 | 266 008 | 973 | 97 448 | 1 2 | |
| | | 1997.. | 367 448 | 5 290 650 | 257 571 | 794 | 109 877 | X X | |
| 3117 | Seafood product preparation & packaging | 1998.. | 106 479 | 858 466 | 55 286 | 122 592 | 51 193 | 6 4 | |
| | | 1997.. | 116 872 | 934 200 | 59 144 | 106 651 | 57 728 | X X | |
| 31171 | Seafood product preparation & packaging | 1998.. | 106 479 | 858 466 | 55 286 | 122 592 | 51 193 | 6 4 | |
| | | 1997.. | 116 872 | 934 200 | 59 144 | 106 651 | 57 728 | X X | |
| 311711 | Seafood canning | 1998.. | 13 189 | 76 128 | 6 451 | D | 6 738 | 6 6 | |
| | | 1997.. | 14 910 | 86 333 | 7 138 | D | 7 772 | X X | |
| 311712 | Fresh & frozen seafood processing | 1998.. | 93 290 | 782 337 | 48 835 | D | 44 455 | 7 4 | |
| | | 1997.. | 101 962 | 847 867 | 52 006 | D | 49 956 | X X | |
| 3118 | Bakeries & tortilla mfg | 1998.. | 580 627 | 5 783 788 | 345 201 | 28 518 | 235 426 | 1 1 | |
| | | 1997.. | 575 782 | 5 701 345 | 339 641 | 47 662 | 236 141 | X X | |
| 31181 | Bread & bakery product mfg | 1998.. | 399 679 | 3 728 359 | 227 591 | 20 768 | 172 089 | 1 1 | |
| | | 1997.. | 385 086 | 3 500 185 | 213 813 | 43 975 | 171 273 | X X | |
| 311811 | Retail bakeries | 1998.. | 47 274 | 424 507 | 26 488 | — | 20 787 | 3 3 | |
| | | 1997.. | 28 170 | 273 250 | 15 529 | — | 12 641 | X X | |
| 311812 | Commercial bakeries | 1998.. | 313 491 | 2 787 260 | 169 862 | D | 143 629 | 1 1 | |
| | | 1997.. | 316 562 | 2 736 948 | 167 576 | D | 148 986 | X X | |
| 311813 | Frozen cakes, pies, & other pastries mfg | 1998.. | 38 914 | 516 592 | 31 241 | D | 7 673 | 4 12 | |
| | | 1997.. | 40 354 | 489 987 | 30 708 | D | 9 646 | X X | |
| 31182 | Cookie, cracker, & pasta mfg | 1998.. | 159 541 | 1 881 727 | 105 547 | 7 750 | 53 994 | 1 1 | |
| | | 1997.. | 168 461 | 2 024 981 | 113 509 | 3 687 | 54 952 | X X | |
| 311821 | Cookie & cracker mfg | 1998.. | 93 193 | 973 081 | 54 361 | 7 750 | 38 832 | 1 1 | |
| | | 1997.. | 93 474 | 954 768 | 53 897 | 3 687 | 39 577 | X X | |
| 311822 | Flour mixes & dough mfg from purchased flour | 1998.. | 44 779 | 630 491 | 35 349 | — | 9 430 | 1 2 | |
| | | 1997.. | 45 620 | 664 092 | 36 412 | — | 9 208 | X X | |
| 311823 | Dry pasta mfg | 1998.. | 21 569 | 278 154 | 15 837 | — | 5 732 | 1 1 | |
| | | 1997.. | 29 367 | 406 121 | 23 200 | — | 6 167 | X X | |
| 31183 | Tortilla mfg | 1998.. | 21 406 | 173 703 | 12 064 | — | 9 343 | 1 1 | |
| | | 1997.. | 22 235 | 176 179 | 12 319 | — | 9 916 | X X | |
| 311830 | Tortilla mfg | 1998.. | 21 406 | 173 703 | 12 064 | — | 9 343 | 1 1 | |
| | | 1997.. | 22 235 | 176 179 | 12 319 | — | 9 916 | X X | |
| 3119 | Other food mfg | 1998.. | 471 191 | 4 773 268 | 274 872 | 3 395 | 196 319 | 1 2 | |
| | | 1997.. | 451 362 | 4 321 560 | 255 169 | 2 887 | 196 193 | X X | |
| 31191 | Snack food mfg | 1998.. | 157 213 | 1 510 352 | 76 581 | D | 80 632 | 3 3 | |
| | | 1997.. | 143 401 | 1 264 536 | 67 725 | D | 75 676 | X X | |
| 311911 | Roasted nuts & peanut butter mfg | 1998.. | 28 624 | 341 716 | 20 962 | D | 7 662 | 4 5 | |
| | | 1997.. | 27 963 | 328 293 | 19 572 | D | 8 391 | X X | |
| 311919 | Other snack food mfg | 1998.. | 128 589 | 1 168 637 | 55 619 | — | 72 970 | 4 4 | |
| | | 1997.. | 115 438 | 936 243 | 48 153 | — | 67 285 | X X | |
| 31192 | Coffee & tea mfg | 1998.. | 46 932 | 490 596 | 28 052 | — | 18 880 | 1 1 | |
| | | 1997.. | 51 757 | 490 602 | 30 158 | — | 21 599 | X X | |
| 311920 | Coffee & tea mfg | 1998.. | 46 932 | 490 596 | 28 052 | — | 18 880 | 1 1 | |
| | | 1997.. | 51 757 | 490 602 | 30 158 | — | 21 599 | X X | |
| 31193 | Flavoring syrup & concentrate mfg | 1998.. | 18 340 | 166 995 | 11 597 | — | 6 744 | 1 1 | |
| | | 1997.. | 17 249 | 160 106 | 11 182 | — | 6 067 | X X | |
| 311930 | Flavoring syrup & concentrate mfg | 1998.. | 18 340 | 166 995 | 11 597 | — | 6 744 | 1 1 | |
| | | 1997.. | 17 249 | 160 106 | 11 182 | — | 6 067 | X X | |
| 31194 | Seasoning & dressing mfg | 1998.. | 69 205 | 792 242 | 47 552 | D | 21 653 | 1 2 | |
| | | 1997.. | 68 487 | 719 254 | 45 744 | D | 22 743 | X X | |
| 311941 | Mayonnaise, dressing, & other prepared sauce mfg | 1998.. | 41 909 | 484 175 | 28 070 | D | 13 839 | 1 2 | |
| | | 1997.. | 41 226 | 424 533 | 27 369 | D | 13 857 | X X | |
| 311942 | Spice & extract mfg | 1998.. | 27 296 | 308 067 | 19 482 | — | 7 814 | 2 5 | |
| | | 1997.. | 27 261 | 294 721 | 18 375 | — | 8 886 | X X | |
| 31199 | All other food mfg | 1998.. | 179 502 | 1 813 083 | 111 091 | D | 68 411 | 3 2 | |
| | | 1997.. | 170 468 | 1 687 062 | 100 360 | D | 70 108 | X X | |
| 311991 | Perishable prepared food mfg | 1998.. | 35 793 | 383 084 | 25 439 | — | 10 353 | 5 6 | |
| | | 1997.. | 35 369 | 391 330 | 24 334 | — | 11 035 | X X | |
| 311999 | All other miscellaneous food mfg | 1998.. | 143 709 | 1 429 999 | 85 652 | D | 58 057 | 4 2 | |
| | | 1997.. | 135 099 | 1 295 732 | 76 026 | D | 59 073 | X X | |
| 312 | Beverage & tobacco product mfg | 1998.. | 663 717 | 7 669 007 | 426 267 | 566 486 | 237 450 | 1 1 | |
| | | 1997.. | 678 036 | 7 653 355 | 421 779 | 598 347 | 256 257 | X X | |
| 3121 | Beverage mfg | 1998.. | 529 994 | 5 841 187 | 341 728 | 329 370 | 188 266 | 1 1 | |
| | | 1997.. | 540 528 | 5 694 351 | 333 856 | 319 828 | 206 672 | X X | |
| 31211 | Soft drink & ice mfg | 1998.. | 243 907 | 2 568 459 | 168 891 | 11 120 | 75 016 | 1 2 | |
| | | 1997.. | 234 438 | 2 506 882 | 160 930 | — | 73 508 | X X | |
| 312111 | Soft drink mfg | 1998.. | 199 537 | 1 977 757 | 129 416 | 11 120 | 70 121 | 1 3 | |
| | | 1997.. | 192 070 | 1 923 032 | 123 129 | — | 68 941 | X X | |
| 312112 | Bottled water mfg | 1998.. | 9 573 | 91 779 | 7 554 | — | 2 018 | 11 5 | |
| | | 1997.. | 7 394 | 72 097 | 5 698 | — | 1 696 | X X | |
| 312113 | Ice mfg | 1998.. | 34 797 | 498 924 | 31 920 | — | 2 877 | 1 1 | |
| | | 1997.. | 34 974 | 511 753 | 32 103 | — | 2 871 | X X | |
| 31212 | Breweries | 1998.. | 210 800 | 2 526 215 | 121 755 | D | 89 045 | 1 1 | |
| | | 1997.. | 227 346 | 2 468 063 | 120 319 | D | 107 027 | X X | |
| 312120 | Breweries | 1998.. | 210 800 | 2 526 215 | 121 755 | D | 89 045 | 1 1 | |
| | | 1997.. | 227 346 | 2 468 063 | 120 319 | D | 107 027 | X X | |
| 31213 | Wineries | 1998.. | 48 927 | 497 822 | 38 727 | D | 10 200 | 2 3 | |
| | | 1997.. | 51 374 | 479 657 | 40 233 | D | 11 141 | X X | |
| 312130 | Wineries | 1998.. | 48 927 | 497 822 | 38 727 | D | 10 200 | 2 3 | |
| | | 1997.. | 51 374 | 479 657 | 40 233 | D | 11 141 | X X | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|---------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|------|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | C | | E | | |
| A | B | C | D | E | C | E | | | |
| 312 | Beverage & tobacco product mfg—Con. | | | | | | | | |
| 3121 | Beverage mfg—Con. | | | | | | | | |
| 31214 | Distilleries | 1998.. | 26 360 | 248 690 | 12 355 | — | 14 006 | 2 3 | |
| | | 1997.. | 27 370 | 239 749 | 12 374 | — | 14 996 | X X | |
| 312140 | Distilleries | 1998.. | 26 360 | 248 690 | 12 355 | — | 14 006 | 2 3 | |
| | | 1997.. | 27 370 | 239 749 | 12 374 | — | 14 996 | X X | |
| 3122 | Tobacco mfg | 1998.. | 133 723 | 1 827 821 | 84 539 | 237 116 | 49 184 | 1 1 | |
| | | 1997.. | 137 508 | 1 959 004 | 87 923 | 278 519 | 49 585 | X X | |
| 31221 | Tobacco stemming & redrying | 1998.. | 20 071 | 224 077 | 14 247 | — | 5 824 | 1 1 | |
| | | 1997.. | 26 095 | 328 608 | 20 290 | — | 5 805 | X X | |
| 312210 | Tobacco stemming & redrying | 1998.. | D | 224 077 | 14 247 | — | D 1 | X X | |
| | | 1997.. | D | 328 608 | 20 290 | — | D X | X X | |
| 31222 | Tobacco product mfg | 1998.. | 113 652 | 1 603 744 | 70 292 | 237 116 | 43 360 | 1 1 | |
| | | 1997.. | 111 413 | 1 630 396 | 67 633 | 278 519 | 43 780 | X X | |
| 312221 | Cigarette mfg | 1998.. | 80 733 | 1 206 672 | 51 307 | D | 29 426 | 1 1 | |
| | | 1997.. | 80 126 | 1 256 006 | 49 723 | D | 30 403 | X X | |
| 312229 | Other tobacco product mfg | 1998.. | D | 397 072 | 18 985 | D | D 1 | X X | |
| | | 1997.. | D | 374 390 | 17 910 | D | D X | X X | |
| 313 | Textile mills | 1998.. | 1 878 610 | 29 026 081 | 1 330 580 | 204 230 | 548 030 | 1 2 | |
| | | 1997.. | 1 915 550 | 28 579 728 | 1 342 771 | 197 659 | 572 779 | X X | |
| 3131 | Fiber, yarn, & thread mills | 1998.. | 437 460 | 9 299 454 | 397 297 | D | 40 163 | 1 2 | |
| | | 1997.. | 431 186 | 8 830 910 | 392 277 | D | 38 909 | X X | |
| 31311 | Fiber, yarn, & thread mills | 1998.. | 437 460 | 9 299 454 | 397 297 | D | 40 163 | 1 2 | |
| | | 1997.. | 431 186 | 8 830 910 | 392 277 | D | 38 909 | X X | |
| 313111 | Yarn spinning mills | 1998.. | 320 872 | 6 902 277 | 295 916 | D | 24 955 | 1 1 | |
| | | 1997.. | 319 810 | 6 659 709 | 296 120 | D | 23 690 | X X | |
| 313112 | Yarn texturing, throwing, & twisting mills | 1998.. | 98 678 | 2 107 440 | 86 935 | — | 11 743 | 3 5 | |
| | | 1997.. | 95 220 | 1 933 223 | 83 335 | — | 11 885 | X X | |
| 313113 | Thread mills | 1998.. | 17 911 | 289 737 | 14 446 | — | 3 465 | 1 1 | |
| | | 1997.. | 16 156 | 237 978 | 12 822 | — | 3 334 | X X | |
| 3132 | Fabric mills | 1998.. | 914 549 | 15 844 637 | 691 750 | D | 222 799 | 1 2 | |
| | | 1997.. | 930 641 | 15 686 288 | 703 838 | D | 226 803 | X X | |
| 31321 | Broadwoven fabric mills | 1998.. | 601 901 | 11 922 486 | 490 481 | D | 111 420 | 1 1 | |
| | | 1997.. | 631 497 | 12 152 868 | 508 212 | D | 123 285 | X X | |
| 313210 | Broadwoven fabric mills | 1998.. | 601 901 | 11 922 486 | 490 481 | D | 111 420 | 1 1 | |
| | | 1997.. | 631 497 | 12 152 868 | 508 212 | D | 123 285 | X X | |
| 31322 | Narrow fabric mills & schiffli machine embroidery | 1998.. | 34 204 | 443 244 | 26 519 | D | 7 685 | 3 3 | |
| | | 1997.. | 34 825 | 443 562 | 26 944 | D | 7 881 | X X | |
| 313221 | Narrow fabric mills | 1998.. | 31 543 | 412 915 | 24 285 | D | 7 258 | 3 3 | |
| | | 1997.. | 31 277 | 407 632 | 24 393 | D | 6 884 | X X | |
| 313222 | Schiffli machine embroidery | 1998.. | 2 661 | 30 330 | 2 235 | — | 426 | 6 10 | |
| | | 1997.. | 3 548 | 35 930 | 2 551 | — | 997 | X | |
| 31323 | Nonwoven fabric mills | 1998.. | 115 410 | 1 990 527 | 83 370 | — | 32 041 | 1 2 | |
| | | 1997.. | 115 066 | 1 566 832 | 81 765 | — | 33 301 | X X | |
| 313230 | Nonwoven fabric mills | 1998.. | 115 410 | 1 990 527 | 83 370 | — | 32 041 | 1 2 | |
| | | 1997.. | 115 066 | 1 566 832 | 81 765 | — | 33 301 | X X | |
| 31324 | Knit fabric mills | 1998.. | 163 034 | 1 488 380 | 91 380 | S | 71 654 | 4 5 | |
| | | 1997.. | 149 253 | 1 523 026 | 86 917 | S | 62 336 | X X | |
| 313241 | Weft knit fabric mills | 1998.. | 98 144 | 858 286 | 53 196 | S | 44 948 | 7 7 | |
| | | 1997.. | 84 096 | 875 240 | 47 922 | S | 36 174 | X X | |
| 313249 | Other knit fabric & lace mills | 1998.. | 64 890 | 630 094 | 38 185 | S | 26 705 | 2 2 | |
| | | 1997.. | 65 157 | 647 786 | 38 995 | S | 26 162 | X X | |
| 3133 | Textile & fabric finishing & fabric coating mills | 1998.. | 526 601 | 3 881 990 | 241 533 | 166 194 | 285 068 | 3 3 | |
| | | 1997.. | 553 723 | 4 062 530 | 246 656 | 173 205 | 307 067 | X X | |
| 31331 | Textile & fabric finishing mills | 1998.. | 483 397 | 3 542 125 | 217 102 | 166 194 | 266 295 | 3 3 | |
| | | 1997.. | 509 969 | 3 723 550 | 223 421 | 173 205 | 286 548 | X X | |
| 313311 | Broadwoven fabric finishing mills | 1998.. | 323 401 | 2 304 809 | 143 302 | 166 194 | 180 099 | 4 4 | |
| | | 1997.. | 352 345 | 2 310 846 | 145 785 | 173 205 | 206 560 | X X | |
| 313312 | Textile & fabric finishing mills | 1998.. | 159 996 | 1 237 316 | 73 800 | — | 86 196 | 3 2 | |
| | | 1997.. | 157 624 | 1 412 704 | 77 636 | — | 79 988 | X X | |
| 31332 | Fabric coating mills | 1998.. | 43 203 | 339 865 | 24 431 | — | 18 772 | 8 6 | |
| | | 1997.. | 43 754 | 338 980 | 23 235 | — | 20 519 | X X | |
| 313320 | Fabric coating mills | 1998.. | 43 203 | 339 865 | 24 431 | — | 18 772 | 8 6 | |
| | | 1997.. | 43 754 | 338 980 | 23 235 | — | 20 519 | X X | |
| 314 | Textile product mills | 1998.. | 400 025 | 5 010 207 | 248 458 | 79 751 | 151 567 | 1 2 | |
| | | 1997.. | 387 300 | 4 768 902 | 245 658 | 34 328 | 141 642 | X X | |
| 3141 | Textile furnishings mills | 1998.. | 215 016 | 2 586 699 | 124 797 | S | 90 219 | 1 2 | |
| | | 1997.. | 219 410 | 2 469 012 | 127 957 | S | 91 453 | X X | |
| 31411 | Carpet & rug mills | 1998.. | 151 836 | 1 819 312 | 80 855 | — | 70 981 | 1 1 | |
| | | 1997.. | 154 164 | 1 665 773 | 83 315 | 89 | 70 849 | X X | |
| 314110 | Carpet & rug mills | 1998.. | 151 836 | 1 819 312 | 80 855 | D | 70 981 | 1 1 | |
| | | 1997.. | 154 164 | 1 665 773 | 83 315 | D | 70 849 | X X | |
| 31412 | Curtain & linen mills | 1998.. | 63 180 | 767 387 | 43 942 | S | 19 238 | 2 9 | |
| | | 1997.. | 65 246 | 803 239 | 44 642 | S | 20 604 | X X | |
| 314121 | Curtain & drapery mills | 1998.. | 12 240 | 125 884 | 8 307 | — | 3 934 | 8 13 | |
| | | 1997.. | 11 300 | 116 731 | 7 800 | — | 3 500 | X X | |
| 314129 | Other household textile product mills | 1998.. | 50 940 | 641 503 | 35 636 | S | 15 304 | 1 11 | |
| | | 1997.. | 53 946 | 686 508 | 36 842 | S | 17 104 | X X | |
| 3149 | Other textile product mills | 1998.. | 185 009 | 2 423 508 | 123 661 | 85 348 | 61 348 | 1 4 | |
| | | 1997.. | 167 890 | 2 299 890 | 117 701 | 34 239 | 50 189 | X X | |
| 31491 | Textile bag & canvas mills | 1998.. | 20 089 | 209 253 | 13 469 | — | 6 619 | 2 4 | |
| | | 1997.. | 20 342 | 210 015 | 13 472 | — | 6 870 | X X | |
| 314911 | Textile bag mills | 1998.. | 8 120 | 97 379 | 6 283 | — | 1 837 | 4 6 | |
| | | 1997.. | 8 127 | 97 649 | 6 288 | — | 1 839 | X X | |
| 314912 | Canvas & related product mills | 1998.. | 11 969 | 111 874 | 7 186 | — | 4 783 | 3 5 | |
| | | 1997.. | 12 215 | 112 366 | 7 184 | — | 5 031 | X X | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|--|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | | | | | |
| A | B | C | D | E | C | E | | | |
| 314 | Textile product mills—Con. | | | | | | | | |
| 3149 | Other textile product mills—Con. | | | | | | | | |
| 31499 | All other textile product mills | 1998.. | 164 920 | 2 214 255 | 110 192 | 85 348 | 54 729 | | |
| | | 1997.. | 147 548 | 2 089 875 | 104 229 | 34 239 | 43 319 | | |
| 314991 | Rope, cordage, & twine mills | 1998.. | 11 753 | 164 319 | 9 632 | S | 2 122 | | |
| | | 1997.. | 13 407 | 191 758 | 11 115 | — | 2 292 | | |
| 314992 | Tire cord & tire fabric mills | 1998.. | 44 423 | 872 089 | 35 752 | 627 | 8 671 | | |
| | | 1997.. | 42 440 | 813 485 | 33 780 | — | 8 660 | | |
| 314999 | All other miscellaneous textile product mills | 1998.. | 108 744 | 1 177 847 | 64 808 | 84 718 | 43 936 | | |
| | | 1997.. | 91 701 | 1 084 632 | 59 334 | 34 239 | 32 367 | | |
| 315 | Apparel mfg | 1998.. | 663 068 | 6 920 657 | 470 803 | 1 110 | 192 265 | | |
| | | 1997.. | 695 063 | 7 243 261 | 487 871 | 210 | 207 192 | | |
| 3151 | Apparel knitting mills | 1998.. | 141 476 | 1 759 573 | 97 228 | 134 | 44 249 | | |
| | | 1997.. | 168 313 | 2 009 954 | 109 780 | — | 58 533 | | |
| 31511 | Hosiery & sock mills | 1998.. | 84 856 | 1 206 513 | 64 076 | 134 | 20 780 | | |
| | | 1997.. | 87 139 | 1 180 016 | 63 642 | — | 23 497 | | |
| 315111 | Sheer hosiery mills | 1998.. | 31 580 | 473 787 | 25 051 | — | 6 529 | | |
| | | 1997.. | 33 118 | 462 798 | 25 902 | — | 7 216 | | |
| 315119 | Other hosiery & sock mills | 1998.. | 53 276 | 732 725 | 39 024 | 134 | 14 251 | | |
| | | 1997.. | 54 021 | 717 218 | 37 740 | — | 16 281 | | |
| 31515 | Other apparel knitting mills | 1998.. | 56 621 | 553 061 | 33 152 | — | 23 469 | | |
| | | 1997.. | 81 174 | 829 938 | 46 138 | — | 35 036 | | |
| 315191 | Outerwear knitting mills | 1998.. | 49 535 | 444 093 | 27 988 | — | 20 546 | | |
| | | 1997.. | 73 060 | 734 708 | 40 439 | — | 32 621 | | |
| 315192 | Underwear & nightwear knitting mills | 1998.. | 8 086 | 108 978 | 5 164 | — | 2 922 | | |
| | | 1997.. | 8 114 | 95 230 | 5 699 | — | 2 415 | | |
| 3152 | Cut & sew apparel mfg | 1998.. | 482 539 | 4 761 161 | 345 568 | D | 136 971 | | |
| | | 1997.. | 487 764 | 4 840 532 | 350 343 | D | 137 421 | | |
| 31521 | Cut & sew apparel contractors | 1998.. | 215 362 | 1 876 567 | 148 225 | S | 67 138 | | |
| | | 1997.. | 227 327 | 2 033 908 | 163 745 | — | 63 582 | | |
| 315211 | Men's & boys' cut & sew apparel contractors .. | 1998.. | 41 459 | 445 553 | 25 396 | — | 16 063 | | |
| | | 1997.. | 30 322 | 349 160 | 22 546 | — | 7 776 | | |
| 315212 | Women's, girls', & infants' cut & sew apparel contractors | 1998.. | 173 903 | 1 431 015 | 122 829 | S | 51 074 | | |
| | | 1997.. | 197 005 | 1 684 748 | 141 199 | — | 55 806 | | |
| 31522 | Men's & boys' cut & sew apparel mfg | 1998.. | 123 256 | 1 543 021 | 92 293 | D | 30 963 | | |
| | | 1997.. | 122 501 | 1 512 553 | 86 847 | D | 35 654 | | |
| 315221 | Men's & boys' cut & sew underwear & nightwear mfg | 1998.. | 5 301 | 55 861 | 3 260 | — | 2 041 | | |
| | | 1997.. | 11 059 | 105 537 | 5 490 | — | 5 569 | | |
| 315222 | Men's & boys' cut & sew suit, coat, & overcoat mfg | 1998.. | 14 901 | 145 132 | 10 859 | — | 4 042 | | |
| | | 1997.. | 16 118 | 150 192 | 11 542 | — | 4 576 | | |
| 315223 | Men's & boys' cut & sew shirt (exc work shirt) mfg | 1998.. | 28 822 | 356 172 | 23 321 | D | 5 501 | | |
| | | 1997.. | 29 977 | 376 380 | 24 304 | — | 5 673 | | |
| 315224 | Men's & boys' cut & sew trouser, slack, & jean mfg | 1998.. | 45 863 | 555 289 | 33 394 | — | 12 469 | | |
| | | 1997.. | 37 907 | 427 334 | 25 008 | — | 12 899 | | |
| 315225 | Men's & boys' cut & sew work clothing mfg | 1998.. | 16 276 | 188 089 | 12 434 | — | 3 842 | | |
| | | 1997.. | 15 057 | 206 410 | 11 207 | — | 3 850 | | |
| 315228 | Men's & boys' cut & sew other outerwear mfg .. | 1998.. | 12 093 | 242 477 | 9 024 | — | 3 068 | | |
| | | 1997.. | 12 383 | 246 700 | 9 296 | — | 3 087 | | |
| 31523 | Women's & girls' cut & sew apparel mfg | 1998.. | 130 974 | 1 186 157 | 94 553 | — | 36 421 | | |
| | | 1997.. | 124 337 | 1 117 151 | 88 409 | — | 35 928 | | |
| 315231 | Women's & girls' cut/sew lingerie & nightwear mfg | 1998.. | 14 482 | 190 091 | 11 903 | — | 2 579 | | |
| | | 1997.. | 15 795 | 213 303 | 13 340 | — | 2 455 | | |
| 315232 | Women's & girls' cut & sew blouse & shirt mfg | 1998.. | 21 866 | 180 083 | 15 351 | — | 6 516 | | |
| | | 1997.. | 17 487 | 141 413 | 12 087 | — | 5 400 | | |
| 315233 | Women's & girls' cut & sew dress mfg | 1998.. | 22 569 | 190 378 | 17 557 | — | 5 013 | | |
| | | 1997.. | 24 132 | 176 188 | 16 436 | — | 7 696 | | |
| 315234 | Women's & girls' cut & sew suit, coat, skirt mfg | 1998.. | 13 112 | 97 469 | 8 431 | — | 4 681 | | |
| | | 1997.. | 13 891 | 108 461 | 9 132 | — | 4 759 | | |
| 315239 | Women's & girls' cut & sew other outerwear mfg | 1998.. | 58 945 | 528 136 | 41 312 | D | 17 633 | | |
| | | 1997.. | 53 032 | 477 786 | 37 414 | — | 15 618 | | |
| 31529 | Other cut & sew apparel mfg | 1998.. | 12 946 | 155 416 | 10 496 | D | 2 450 | | |
| | | 1997.. | 13 599 | 176 920 | 11 342 | D | 2 257 | | |
| 315291 | Infants' cut & sew apparel mfg | 1998.. | 4 973 | 74 300 | 4 397 | D | 576 | | |
| | | 1997.. | 4 773 | 77 441 | 4 223 | D | 550 | | |
| 315292 | Fur & leather apparel mfg | 1998.. | 1 363 | 11 956 | 1 175 | — | 189 | | |
| | | 1997.. | 1 555 | 13 818 | 1 376 | — | 179 | | |
| 315299 | All other cut & sew apparel mfg | 1998.. | 6 610 | 69 160 | 4 925 | — | 1 685 | | |
| | | 1997.. | 7 271 | 85 661 | 5 743 | — | 1 528 | | |
| 3159 | Apparel accessories & other apparel mfg | 1998.. | 39 053 | 399 922 | 28 008 | — | 11 045 | | |
| | | 1997.. | 38 986 | 392 775 | 27 748 | — | 11 238 | | |
| 31599 | Apparel accessories & other apparel mfg | 1998.. | 39 053 | 399 922 | 28 008 | — | 11 045 | | |
| | | 1997.. | 38 986 | 392 775 | 27 748 | — | 11 238 | | |
| 315991 | Hat, cap, & millinery mfg | 1998.. | 10 205 | 105 927 | 7 257 | — | 2 947 | | |
| | | 1997.. | 9 858 | 101 222 | 6 994 | — | 2 864 | | |
| 315992 | Glove & mitten mfg | 1998.. | 4 657 | 53 502 | 3 184 | — | 1 474 | | |
| | | 1997.. | 4 573 | 49 517 | 3 091 | — | 1 482 | | |
| 315993 | Men's & boys' neckwear mfg | 1998.. | 2 732 | 22 232 | 1 814 | — | 918 | | |
| | | 1997.. | 2 907 | 28 734 | 2 099 | — | 808 | | |
| 315999 | Other apparel accessories & other apparel mfg | 1998.. | 21 459 | 218 261 | 15 753 | — | 5 706 | | |
| | | 1997.. | 21 648 | 213 302 | 15 564 | — | 6 084 | | |

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Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

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| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|------------------------------------------------------------------|-------------------------------------------------------|--------------------------|------------------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|--|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | | | | | |
| A | B | C | D | E | C | E | | | |
| 316 | Leather & allied product mfg | 1998.. 87 618 1997.. 94 163 | 877 691 943 466 | 59 581 62 679 | 943 1 419 | 28 038 31 484 | 2 X 2 X | | |
| 3161 | Leather & hide tanning & finishing | 1998.. 39 787 1997.. 42 629 | 353 859 379 156 | 22 482 22 884 | D D | 17 305 19 745 | 2 X 2 X | | |
| 31611 | Leather & hide tanning & finishing | 1998.. 39 787 1997.. 42 629 | 353 859 379 156 | 22 482 22 884 | D D | 17 305 19 745 | 2 X 2 X | | |
| 316110 | Leather & hide tanning & finishing | 1998.. 39 787 1997.. 42 629 | 353 859 379 156 | 22 482 22 884 | D D | 17 305 19 745 | 2 X 2 X | | |
| 3162 | Footwear mfg..... | 1998.. 26 712 1997.. 30 698 | 298 332 347 528 | 21 795 25 065 | — D | 4 918 5 633 | 4 X 4 X | | |
| 31621 | Footwear mfg..... | 1998.. 26 712 1997.. 30 698 | 298 332 347 528 | 21 795 25 065 | D — | 4 918 5 633 | 4 X 4 X | | |
| 316211 | Rubber & plastics footwear mfg | 1998.. D 1997.. 92 079 | 6 808 103 079 | — 7 460 | D — | D D | 2 X X X | | |
| 316212 | House slipper mfg | 1998.. D 1997.. D | 24 157 23 947 | 1 689 1 806 | D D | D D | 4 X 4 X | | |
| 316213 | Men's footwear (except athletic) mfg | 1998.. 10 181 1997.. 12 431 | 131 126 155 559 | 9 251 10 870 | — — | 930 1 561 | 4 X X X | | |
| 316214 | Women's footwear (except athletic) mfg | 1998.. 2 838 1997.. 4 118 | 25 734 43 840 | 2 207 3 302 | — — | 631 816 | 38 X X X | | |
| 316219 | Other footwear mfg..... | 1998.. 2 452 1997.. 2 000 | 25 236 21 103 | 1 839 1 627 | — — | 612 373 | 8 45 X X X | | |
| 3169 | Other leather & allied product mfg | 1998.. 21 119 1997.. 20 836 | 225 500 216 782 | 15 304 14 730 | D — | 5 815 6 106 | 2 X 2 X | | |
| 31699 | Other leather & allied product mfg | 1998.. 21 119 1997.. 20 836 | 225 500 216 782 | 15 304 14 730 | D — | 5 815 6 106 | 2 X 2 X | | |
| 316991 | Luggage mfg | 1998.. 6 991 1997.. 7 216 | 86 265 85 852 | 5 539 5 656 | — — | 1 453 1 560 | 2 1 X X X | | |
| 316992 | Women's handbag & purse mfg | 1998.. 1 952 1997.. 2 086 | 13 762 12 047 | 1 220 1 145 | — — | 732 941 | 1 7 X X X | | |
| 316993 | Personal leather good (except women's handbag & purse) mfg | 1998.. 2 484 1997.. 2 191 | 24 402 22 752 | 1 871 1 627 | D — | 613 564 | 3 3 X X X | | |
| 316999 | All other leather good mfg | 1998.. 9 691 1997.. 9 343 | 101 071 96 131 | 6 674 6 302 | — — | 3 017 3 041 | 5 X X X | | |
| 321 | Wood product mfg | 1998.. 1 553 993 1997.. 1 519 336 | 22 609 341 21 984 980 | 1 127 044 1 101 988 | 621 889 578 072 | 426 949 417 348 | 1 X 1 X | | |
| 3211 | Sawmills & wood preservation | 1998.. 540 071 1997.. 522 316 | 7 378 832 7 139 485 | 388 380 374 120 | 505 896 446 243 | 151 691 148 196 | 1 2 X 2 X | | |
| 32111 | Sawmills & wood preservation | 1998.. 540 071 1997.. 522 316 | 7 378 832 7 139 485 | 388 380 374 120 | 505 896 446 243 | 151 691 148 196 | 1 2 X 2 X | | |
| 321113 | Sawmills | 1998.. 501 780 1997.. 483 363 | 7 038 943 6 807 285 | 369 206 355 175 | 505 896 446 243 | 132 574 128 188 | 1 2 X X X | | |
| 321114 | Wood preservation | 1998.. 38 291 1997.. 38 953 | 339 889 332 200 | 19 174 18 945 | — — | 19 118 20 008 | 2 4 X X X | | |
| 3212 | Veneer, plywood, & engineered wood product mfg | 1998.. 607 117 1997.. 605 371 | 9 741 353 9 588 013 | 423 828 427 623 | 94 765 112 696 | 183 289 177 748 | 1 X 1 X | | |
| 32121 | Veneer, plywood, & engineered wood product mfg | 1998.. 607 117 1997.. 605 371 | 9 741 353 9 588 013 | 423 828 427 623 | 94 765 112 696 | 183 289 177 748 | 1 X 1 X | | |
| 321211 | Hardwood veneer & plywood mfg | 1998.. 54 000 1997.. 51 648 | 745 299 709 894 | 39 513 38 282 | D D | 14 487 13 366 | 1 3 X X X | | |
| 321212 | Softwood veneer & plywood mfg | 1998.. 160 404 1997.. 160 849 | 2 770 415 2 773 349 | 116 386 118 934 | D D | 44 018 41 915 | 1 3 X X X | | |
| 321213 | Engineered wood member (except truss) mfg | 1998.. 22 193 1997.. 22 279 | 411 121 390 998 | 17 964 18 052 | — — | 4 228 4 227 | 1 6 X X X | | |
| 321214 | Truss mfg | 1998.. 22 303 1997.. 19 601 | 240 566 204 067 | 14 267 12 377 | — — | 8 036 7 224 | 4 5 X X X | | |
| 321219 | Reconstituted wood product mfg | 1998.. 348 218 1997.. 350 994 | 5 573 952 5 509 705 | 235 698 239 978 | D D | 112 520 111 016 | 1 1 X X X | | |
| 3219 | Other wood product mfg | 1998.. 406 805 1997.. 391 649 | 5 489 156 5 257 482 | 314 837 300 245 | 21 228 19 133 | 91 968 91 404 | 1 2 X 2 X | | |
| 32191 | Millwork | 1998.. 223 204 1997.. 216 036 | 3 333 094 3 203 064 | 181 672 173 247 | D D | 41 532 42 789 | 1 3 X X X | | |
| 321911 | Wood window & door mfg | 1998.. 76 621 1997.. 73 362 | 1 148 516 1 088 489 | 61 581 57 868 | — — | 15 041 15 494 | 1 2 X X X | | |
| 321912 | Cut stock, resawing lumber, & planing | 1998.. 89 616 1997.. 86 835 | 1 253 203 1 200 206 | 70 775 67 416 | D D | 18 842 19 419 | 2 6 X X X | | |
| 321918 | Other millwork (including flooring) | 1998.. 55 966 1997.. 55 839 | 931 375 914 369 | 49 316 47 963 | D D | 7 650 7 876 | 2 6 X X X | | |
| 32192 | Wood container & pallet mfg | 1998.. 69 708 1997.. 66 487 | 795 483 769 189 | 49 128 47 365 | SS SS | 20 580 19 122 | 1 3 X X X | | |
| 321920 | Wood container & pallet mfg | 1998.. 69 708 1997.. 66 487 | 795 483 769 189 | 49 128 47 365 | S SS | 20 580 19 122 | 1 3 X X X | | |
| 32199 | All other wood product mfg | 1998.. 113 893 1997.. 109 126 | 1 360 579 1 285 229 | 84 037 79 633 | D D | 29 856 29 493 | 1 4 X X X | | |
| 321991 | Manufactured home (mobile home) mfg | 1998.. 32 325 1997.. 30 645 | 391 821 356 537 | 25 218 23 292 | — — | 7 107 7 353 | 1 2 X X X | | |
| 321992 | Prefabricated wood building mfg | 1998.. 15 933 1997.. 14 166 | 161 351 148 490 | 9 977 9 143 | — — | 5 957 5 023 | 5 13 X X X | | |
| 321999 | All other miscellaneous wood product mfg | 1998.. 65 635 1997.. 64 315 | 807 408 780 202 | 48 842 47 198 | D D | 16 792 17 117 | 1 4 X X X | | |

See footnotes at end of table.

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|------------|---------------------------------------------------------------|-------------------------------------------------------|--------------------------|------------------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|------|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | | | C | E |
| A | B | C | D | E | | | | |
| 322 | Paper mfg..... | 1998.. 5 952 194 1997.. 6 279 346 | 69 901 800 70 046 911 | 2 907 821 2 913 183 | 45 925 836 44 897 971 | 3 044 373 3 366 163 | 1 X | 1 X |
| 3221 | Pulp, paper, & paperboard mills | 1998.. 4 924 877 1997.. 5 270 373 | 57 932 389 58 605 851 | 2 198 431 2 231 537 | 45 592 150 44 899 042 | 2 726 446 3 038 836 | 1 X | 1 X |
| 32211 | Pulp mills | 1998.. 260 103 1997.. 283 543 | 2 387 430 2 387 430 | 96 677 92 758 | 3 136 396 3 464 668 | 163 426 190 785 | 1 X | 1 X |
| 322110 | Pulp mills | 1998.. 260 103 1997.. 283 543 | 2 387 430 2 176 854 | 96 677 92 758 | 3 136 396 3 464 668 | 163 426 190 785 | 1 X | 1 X |
| 32212 | Paper mills | 1998.. 2 889 642 1997.. 3 157 859 | 37 233 894 38 134 835 | 1 403 240 1 453 904 | 26 149 139 24 991 505 | 1 486 402 1 703 955 | 1 X | 1 X |
| 322121 | Paper (except newsprint) mills | 1998.. 2 318 568 1997.. 2 551 083 | 25 556 555 26 123 331 | 1 021 254 1 066 663 | 21 936 666 20 803 690 | 1 297 314 1 484 420 | 2 X | 1 X |
| 322122 | Newsprint mills | 1998.. 571 074 1997.. 606 776 | 11 677 338 12 011 504 | 381 986 387 241 | 4 212 473 4 187 815 | 189 088 219 535 | 3 X | 1 X |
| 32213 | Paperboard mills | 1998.. 1 775 132 1997.. 1 828 971 | 18 311 066 18 294 162 | 698 514 684 875 | 16 306 615 16 442 869 | 1 076 618 1 144 096 | 1 X | 1 X |
| 322130 | Paperboard mills | 1998.. 1 775 132 1997.. 1 828 971 | 18 311 066 18 294 162 | 698 514 684 875 | 16 306 615 16 442 869 | 1 076 618 1 144 096 | 1 X | 1 X |
| 3222 | Converted paper product mfg | 1998.. 1 027 317 1997.. 1 008 973 | 11 969 411 11 441 060 | 709 390 681 646 | 333 686 S | 317 927 327 327 | 1 X | 2 X |
| 32221 | Paperboard container mfg | 1998.. 553 306 1997.. 544 665 | 6 212 750 5 855 982 | 385 946 360 915 | D | 167 360 183 750 | 1 X | 3 X |
| 322211 | Corrugated & solid fiber box mfg | 1998.. 363 101 1997.. 358 483 | 3 641 831 3 437 948 | 230 592 215 577 | D | 132 509 142 906 | 2 X | 3 X |
| 322212 | Folding paperboard box mfg | 1998.. 114 057 1997.. 110 323 | 1 473 806 1 377 592 | 91 066 86 299 | D | 22 992 24 024 | 1 X | 2 X |
| 322213 | Setup paperboard box mfg | 1998.. S 1997.. 7 759 | S 74 509 | S 5 113 | S | S 2 646 | X | X |
| 322214 | Fiber can, tube, drum, & similar products mfg | 1998.. 23 068 1997.. 23 478 | 271 419 265 581 | 17 110 17 031 | D | 5 959 6 447 | 2 X | 3 X |
| 322215 | Nonfolding sanitary food container mfg | 1998.. 44 263 1997.. 44 622 | 686 146 700 352 | 36 762 36 895 | D | 7 501 7 727 | 1 X | 2 X |
| 32222 | Paper bag & coated & treated paper mfg | 1998.. 259 470 1997.. 257 510 | 2 814 621 2 795 816 | 156 748 157 522 | D | 102 722 99 988 | 1 X | 2 X |
| 322221 | Coated & laminated packaging paper & plastics film mfg | 1998.. 21 648 1997.. 22 854 | 258 325 271 509 | 15 003 15 914 | D | 6 645 6 940 | 7 X | 25 X |
| 322222 | Coated & laminated paper mfg | 1998.. 171 259 1997.. 166 791 | 1 680 724 1 667 901 | 93 288 93 159 | D | 77 971 73 632 | 1 X | 1 X |
| 322223 | Plastics, foil, & coated paper bag mfg | 1998.. 5 504 1997.. 5 559 | 57 660 60 691 | 4 224 4 302 | D | 1 279 1 257 | 2 X | 7 X |
| 322224 | Uncoated paper & multiwall bag mfg | 1998.. 28 737 1997.. 28 813 | 419 617 415 384 | 22 279 22 289 | D | 6 458 6 524 | 1 X | 1 X |
| 322225 | Laminated aluminum foil mfg for flexible packaging uses | 1998.. 20 612 1997.. 22 192 | 245 504 227 662 | 13 410 13 164 | D | 7 202 9 028 | 3 X | 1 X |
| 322226 | Surface-coated paperboard mfg | 1998.. 11 709 1997.. 11 301 | 152 792 152 669 | 8 543 8 694 | D | 3 166 2 607 | 1 X | 6 X |
| 32223 | Stationery product mfg | 1998.. 72 724 1997.. 73 592 | 911 211 964 641 | 57 446 64 182 | S | 15 278 9 410 | 8 X | 17 X |
| 322231 | Die-cut paper & paperboard office supplies mfg | 1998.. 13 863 1997.. 12 840 | 183 641 158 382 | 11 508 10 474 | S | 2 355 2 366 | 1 X | 6 X |
| 322232 | Envelope mfg | 1998.. 47 589 1997.. 49 256 | 581 807 663 894 | 36 862 44 645 | D | 10 727 4 611 | 11 X | 25 X |
| 322233 | Stationery, tablet, & related product mfg | 1998.. 11 272 1997.. 11 496 | 145 762 142 365 | 9 076 9 063 | D | 2 196 2 433 | 10 X | 7 X |
| 32229 | Other converted paper product mfg | 1998.. 141 816 1997.. 133 206 | 2 030 829 1 824 621 | 109 250 99 027 | S | 32 567 34 179 | 1 X | 3 X |
| 322291 | Sanitary paper product mfg | 1998.. 63 009 1997.. 65 433 | 1 205 688 1 103 159 | 57 584 53 954 | S | 5 424 11 479 | 1 X | 18 X |
| 322299 | All other converted paper product mfg | 1998.. 78 808 1997.. 67 773 | 825 140 721 462 | 51 665 45 073 | S | 27 142 22 700 | 2 X | 2 X |
| 323 | Printing & related support activities | 1998.. 1 184 005 1997.. 1 137 258 | 14 865 992 14 335 848 | 916 458 866 359 | S | 267 547 270 899 | 2 X | 2 X |
| 3231 | Printing & related support activities | 1998.. 1 184 005 1997.. 1 137 258 | 14 865 992 14 335 848 | 916 458 866 359 | S | 267 547 270 899 | 2 X | 2 X |
| 32311 | Printing | 1998.. 1 105 835 1997.. 1 062 647 | 13 860 867 13 389 568 | 853 068 807 200 | S | 252 768 255 447 | 2 X | 2 X |
| 323110 | Commercial lithographic printing | 1998.. 634 655 1997.. 620 753 | 8 018 600 7 764 365 | 493 068 476 438 | S | 141 588 144 315 | 1 X | 4 X |
| 323111 | Commercial gravure printing | 1998.. 95 110 1997.. 88 143 | 1 322 274 1 261 106 | 64 879 60 272 | S | 30 231 27 871 | 1 X | 3 X |
| 323112 | Commercial flexographic printing | 1998.. 60 612 1997.. 43 265 | 669 093 537 142 | 49 848 33 854 | S | 10 765 9 411 | 25 X | 6 X |
| 323113 | Commercial screen printing | 1998.. 72 323 1997.. 75 444 | 786 496 769 655 | 52 151 51 610 | S | 20 172 23 834 | 7 X | 9 X |
| 323114 | Quick printing | 1998.. 43 521 1997.. 37 039 | 490 208 417 882 | 33 826 27 644 | S | 9 695 9 395 | 13 X | 6 X |
| 323115 | Digital printing | 1998.. 3 989 1997.. 3 445 | 41 643 38 356 | 2 883 2 592 | S | 1 106 1 853 | 1 X | 13 X |
| 323116 | Manifold business form printing | 1998.. 70 901 1997.. 73 321 | 897 814 1 005 998 | 57 642 59 674 | S | 13 259 13 647 | 4 X | 2 X |
| 323117 | Book printing | 1998.. 71 823 1997.. 70 837 | 1 030 206 1 028 152 | 57 325 55 516 | S | 14 497 15 321 | 2 X | 5 X |
| 323118 | Blankbook, looseleaf binder, & device mfg | 1998.. 18 246 1997.. 17 726 | 223 932 214 388 | 15 329 14 821 | S | 2 918 2 905 | 3 X | 4 X |
| 323119 | Other commercial printing | 1998.. 34 656 1997.. 32 674 | 370 601 352 524 | 26 118 24 779 | S | 8 538 7 895 | 6 X | 8 X |
| 32312 | Support activities for printing | 1998.. 78 170 1997.. 74 611 | 1 005 126 946 280 | 63 390 59 159 | S | 14 780 15 452 | 3 X | 4 X |
| 323121 | Tradebinding & related work | 1998.. 29 969 1997.. 27 046 | 440 719 395 034 | 23 553 20 584 | S | 6 416 6 462 | 5 X | 3 X |
| 323122 | Prepress services | 1998.. 48 201 1997.. 47 565 | 564 407 551 246 | 39 837 38 575 | S | 8 363 8 990 | 3 X | 6 X |

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|------------|--------------------------------------------------------------------|-------------------------------------------------------|----------------------------|------------------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|--|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | | | | | |
| A | B | C | D | E | C | E | | | |
| 324 | Petroleum & coal products mfg | 1998.. 4 351 834 1997.. 4 712 871 | 33 466 883 39 999 314 | 1 450 536 1 910 305 | 13 973 610 9 087 663 | 2 901 298 2 802 566 | 1 X X X | | |
| 3241 | Petroleum & coal products mfg | 1998.. 4 351 834 1997.. 4 712 871 | 33 466 883 39 999 314 | 1 450 536 1 910 305 | 13 973 610 9 087 663 | 2 901 298 2 802 566 | 1 X X X | | |
| 32411 | Petroleum refineries | 1998.. 3 820 979 1997.. 4 181 276 | 30 353 671 37 019 576 | 1 257 251 1 725 681 | 13 837 013 8 940 712 | 2 563 727 2 455 595 | 1 X X X | | |
| 324110 | Petroleum refineries | 1998.. 3 820 979 1997.. 4 181 276 | 30 353 671 37 019 576 | 1 257 251 1 725 681 | 13 837 013 8 940 712 | 2 563 727 2 455 595 | 1 X X X | | |
| 32412 | Asphalt paving, roofing, & saturated materials mfg | 1998.. 428 368 1997.. 406 264 | 2 284 608 2 187 621 | 149 418 140 526 | D D | 278 950 265 738 | 2 X X X | | |
| 324121 | Asphalt paving mixture & block mfg | 1998.. 331 462 1997.. 309 450 | 1 443 217 1 364 269 | 103 878 96 297 | D D | 227 584 213 153 | 3 X X X | | |
| 324122 | Asphalt shingle & coating materials mfg | 1998.. 96 906 1997.. 96 814 | 841 391 823 352 | 45 539 44 229 | D D | 51 367 52 585 | 1 X X X | | |
| 32419 | Other petroleum & coal products mfg | 1998.. 102 488 1997.. 125 331 | 828 604 792 117 | 43 867 44 098 | D D | 58 621 81 233 | 2 X X X | | |
| 324191 | Petroleum lubricating oil & grease mfg | 1998.. 59 499 1997.. 56 287 | 456 192 389 532 | 25 546 25 598 | — — | 33 952 30 689 | 2 X X X | | |
| 324199 | All other petroleum & coal products mfg | 1998.. 42 989 1997.. 69 044 | 372 412 402 585 | 18 320 18 500 | D D | 24 668 50 544 | 4 X X X | | |
| 325 | Chemical mfg | 1998.. 11 453 751 1997.. 11 733 297 | 152 662 449 157 146 587 | 5 925 871 5 882 408 | 32 657 444 27 063 899 | 5 527 880 5 850 889 | 1 X X X | | |
| 3251 | Basic chemical mfg | 1998.. 6 473 786 1997.. 6 774 699 | 94 599 236 101 813 042 | 3 290 875 3 304 021 | 18 746 540 15 925 121 | 3 182 910 3 470 678 | 1 X X X | | |
| 32511 | Petrochemical mfg | 1998.. 937 018 1997.. 987 936 | 4 875 607 3 887 828 | 186 490 161 955 | 1 259 816 1 745 783 | 750 528 825 981 | 1 X X X | | |
| 325110 | Petrochemical mfg | 1998.. 937 018 1997.. 987 936 | 4 875 607 3 887 828 | 186 490 161 955 | 1 259 816 1 745 783 | 750 528 825 981 | 1 X X X | | |
| 32512 | Industrial gas mfg | 1998.. 947 231 1997.. 884 790 | 19 392 691 18 798 818 | 746 930 704 025 | — — | 200 301 180 765 | 1 X X X | | |
| 325120 | Industrial gas mfg | 1998.. 947 231 1997.. 884 790 | 19 392 691 18 798 818 | 746 930 704 025 | — — | 200 301 180 765 | 1 X X X | | |
| 32513 | Dye & pigment mfg | 1998.. 256 318 1997.. 260 973 | 3 032 616 3 334 870 | 131 658 132 207 | — — | 124 660 128 766 | 1 X X X | | |
| 325131 | Inorganic dye & pigment mfg | 1998.. 188 941 1997.. 189 576 | 2 391 965 2 499 402 | 95 421 93 919 | — — | 93 520 95 657 | 1 X X X | | |
| 325132 | Synthetic organic dye & pigment mfg | 1998.. 67 376 1997.. 71 397 | 640 651 835 468 | 36 237 38 288 | — — | 31 140 33 109 | 1 X X X | | |
| 32518 | Other basic inorganic chemical mfg | 1998.. 1 692 990 1997.. 1 738 071 | 41 935 873 49 442 988 | 1 232 615 1 307 396 | 3 993 897 3 304 377 | 460 375 430 675 | 1 X X X | | |
| 325181 | Alkalies & chlorine mfg | 1998.. 495 842 1997.. 527 228 | 10 606 303 12 638 258 | 365 011 382 104 | D D | 130 831 145 124 | 1 X X X | | |
| 325182 | Carbon black mfg | 1998.. D 1997.. D | 719 348 653 103 | 32 982 30 755 | D D | D D | 5 X X X | | |
| 325188 | All other basic inorganic chemical mfg | 1998.. D 1997.. D | 30 610 222 36 151 627 | 834 621 894 537 | 913 765 52 199 | D D | 1 X X X | | |
| 32519 | Other basic organic chemical mfg | 1998.. 2 640 230 1997.. 2 902 929 | 25 362 449 26 348 538 | 993 183 998 438 | 13 492 827 10 874 961 | 1 647 047 1 904 491 | 1 X X X | | |
| 325191 | Gum & wood chemical mfg | 1998.. 26 650 1997.. 26 733 | 232 910 220 467 | 9 777 9 464 | — — | 16 872 17 269 | 2 X X X | | |
| 325192 | Cyclic crude & intermediate mfg | 1998.. 264 538 1997.. 300 375 | 3 300 111 3 243 433 | 117 984 129 212 | 287 764 319 652 | 146 554 171 163 | 1 X X X | | |
| 325193 | Ethyl alcohol mfg | 1998.. 84 013 1997.. 105 639 | 381 123 440 986 | 16 414 20 657 | 514 526 498 762 | 67 600 84 982 | 11 X 20 X | | |
| 325199 | All other basic organic chemical mfg | 1998.. 2 265 029 1997.. 2 470 182 | 21 448 305 22 443 652 | 849 008 839 105 | 12 690 537 10 056 547 | 1 416 021 1 631 077 | 1 X X X | | |
| 3252 | Resin, syn rubber, & artificial & syn fibers & filaments mfg | 1998.. 2 227 848 1997.. 2 239 185 | 28 035 130 27 128 317 | 1 074 545 1 069 703 | 9 528 667 7 230 261 | 1 153 304 1 169 482 | 1 X X X | | |
| 32521 | Resin & synthetic rubber mfg | 1998.. 1 729 060 1997.. 1 744 338 | 20 691 032 19 926 966 | 809 572 798 841 | 8 249 648 5 699 008 | 919 488 945 497 | 1 X X X | | |
| 325211 | Plastics material & resin mfg | 1998.. 1 536 019 1997.. 1 523 072 | 18 877 888 18 018 300 | 732 008 713 974 | 8 117 368 5 538 492 | 804 011 809 098 | 1 X X X | | |
| 325212 | Synthetic rubber mfg | 1998.. 193 041 1997.. 221 266 | 1 813 144 1 908 666 | 77 564 84 867 | 132 280 160 516 | 115 477 136 399 | 1 X X X | | |
| 32522 | Artificial & synthetic fibers & filaments mfg | 1998.. 498 788 1997.. 494 847 | 7 344 098 7 201 351 | 264 973 270 862 | D D | 233 815 223 985 | 1 X X X | | |
| 325221 | Cellulosic organic fiber mfg | 1998.. D 1997.. D | 380 128 411 544 | 13 260 13 713 | D D | D D | 1 X X X | | |
| 325222 | Noncellulosic organic fiber mfg | 1998.. D 1997.. D | 6 963 970 6 789 807 | 251 713 257 149 | D D | D D | 1 X X X | | |
| 3253 | Pesticide, fertilizer, & other agricultural chemical mfg | 1998.. 805 701 1997.. 810 885 | 7 952 333 7 651 813 | 311 272 325 257 | 2 358 863 2 200 482 | 494 429 485 628 | 5 X X X | | |
| 32531 | Fertilizer mfg | 1998.. 653 162 1997.. 673 761 | 6 356 618 6 090 380 | 236 169 254 708 | 2 327 388 2 164 618 | 416 993 419 053 | 7 X X X | | |
| 325311 | Nitrogenous fertilizer mfg | 1998.. 503 302 1997.. 500 292 | 3 974 218 3 330 733 | 131 833 131 992 | 477 455 442 801 | 371 468 368 300 | 12 X 2 X | | |
| 325312 | Phosphatic fertilizer mfg | 1998.. 119 527 1997.. 142 899 | 2 079 001 2 462 928 | 86 813 105 399 | 1 849 933 1 721 817 | 32 714 37 500 | 1 X X X | | |
| 325314 | Fertilizer (mixing only) mfg | 1998.. 30 333 1997.. 30 570 | 303 399 296 719 | 17 522 17 317 | — — | 12 811 13 253 | 4 X 4 X | | |
| 32532 | Pesticide & other agricultural chemical mfg | 1998.. 152 539 1997.. 137 124 | 1 595 715 1 561 433 | 75 104 70 549 | 31 475 35 864 | 77 436 66 575 | 1 X X X | | |
| 325320 | Pesticide & other agricultural chemical mfg | 1998.. 152 539 1997.. 137 124 | 1 595 715 1 561 433 | 75 104 70 549 | 31 475 35 864 | 77 436 66 575 | 1 X X X | | |

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|------------|--------------------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|---|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | C | | E | | |
| A | B | C | D | E | F | G | H | I | |
| 325 | Chemical mfg—Con. | | | | | | | | |
| 3254 | Pharmaceutical & medicine mfg | 1998.. | 794 770 | 9 489 442 | 529 588 | 629 990 | 265 183 | 1 | |
| | | 1997.. | 770 133 | 8 659 449 | 491 916 | 657 851 | 278 217 | X | |
| 32541 | Pharmaceutical & medicine mfg | 1998.. | 794 770 | 9 489 442 | 529 588 | 629 990 | 265 183 | 1 | |
| | | 1997.. | 770 133 | 8 659 449 | 491 916 | 657 851 | 278 217 | X | |
| 325411 | Medicinal & botanical mfg | 1998.. | 217 233 | 2 526 412 | 132 371 | D | 84 862 | 1 | |
| | | 1997.. | 189 401 | 2 109 080 | 107 240 | D | 82 161 | X | |
| 325412 | Pharmaceutical preparation mfg | 1998.. | 412 421 | 4 721 010 | 277 639 | 402 169 | 134 782 | 1 | |
| | | 1997.. | 423 400 | 4 445 998 | 274 501 | 426 958 | 148 899 | X | |
| 325413 | In-vitro diagnostic substance mfg | 1998.. | 77 641 | 1 036 305 | 60 896 | — | 16 745 | 4 | |
| | | 1997.. | 72 765 | 978 321 | 57 072 | — | 15 693 | X | |
| 325414 | Biological product (except diagnostic) mfg | 1998.. | 87 476 | 1 205 714 | 58 682 | D | 28 794 | 1 | |
| | | 1997.. | 84 567 | 1 126 050 | 53 103 | D | 31 464 | X | |
| 3255 | Paint, coating, & adhesive mfg | 1998.. | 228 301 | 2 480 842 | 162 015 | D | 66 286 | 1 | |
| | | 1997.. | 219 027 | 2 340 694 | 150 655 | D | 68 372 | X | |
| 32551 | Paint & coating mfg | 1998.. | 134 960 | 1 499 247 | 95 697 | D | 39 264 | 2 | |
| | | 1997.. | 129 922 | 1 419 909 | 89 516 | D | 40 406 | X | |
| 325510 | Paint & coating mfg | 1998.. | 134 960 | 1 499 247 | 95 697 | — | 39 264 | 2 | |
| | | 1997.. | 129 922 | 1 419 909 | 89 516 | S | 40 406 | X | |
| 32552 | Adhesive mfg | 1998.. | 93 341 | 981 595 | 66 319 | — | 27 022 | 2 | |
| | | 1997.. | 89 105 | 920 785 | 61 139 | 962 | 27 966 | X | |
| 325520 | Adhesive mfg | 1998.. | 93 341 | 981 595 | 66 319 | — | 27 022 | 2 | |
| | | 1997.. | 89 105 | 920 785 | 61 139 | 962 | 27 966 | X | |
| 3256 | Soap, cleaning compound, & toilet preparation mfg | 1998.. | 370 840 | 3 985 978 | 223 645 | D | 147 194 | 1 | |
| | | 1997.. | 380 179 | 3 796 654 | 218 100 | D | 162 079 | X | |
| 32561 | Soap & cleaning compound mfg | 1998.. | 269 129 | 2 791 773 | 145 969 | D | 123 160 | 1 | |
| | | 1997.. | 285 088 | 2 743 732 | 144 482 | D | 140 606 | X | |
| 325611 | Soap & other detergent mfg | 1998.. | 103 542 | 1 120 069 | 60 762 | D | 42 780 | 2 | |
| | | 1997.. | 100 950 | 1 096 845 | 57 745 | D | 43 205 | X | |
| 325612 | Polish & other sanitation good mfg | 1998.. | 40 918 | 433 016 | 27 869 | — | 13 049 | 2 | |
| | | 1997.. | 41 772 | 458 663 | 28 361 | — | 13 411 | X | |
| 325613 | Surface active agent mfg | 1998.. | 124 670 | 1 238 688 | 57 338 | — | 67 332 | 1 | |
| | | 1997.. | 142 366 | 1 188 224 | 58 376 | — | 83 990 | X | |
| 32562 | Toilet preparation mfg | 1998.. | 101 711 | 1 194 204 | 77 677 | — | 24 034 | 2 | |
| | | 1997.. | 95 091 | 1 052 922 | 73 618 | — | 21 473 | X | |
| 325620 | Toilet preparation mfg | 1998.. | 101 711 | 1 194 204 | 77 677 | — | 24 034 | 2 | |
| | | 1997.. | 95 091 | 1 052 922 | 73 618 | — | 21 473 | X | |
| 3259 | Other chemical product mfg | 1998.. | 552 504 | 6 119 488 | 333 931 | 1 044 864 | 218 573 | 1 | |
| | | 1997.. | 539 189 | 5 756 618 | 322 756 | 1 017 915 | 216 433 | X | |
| 32591 | Printing ink mfg | 1998.. | 28 873 | 340 014 | 23 716 | — | 5 158 | 7 | |
| | | 1997.. | 27 653 | 325 456 | 22 070 | — | 5 583 | X | |
| 325910 | Printing ink mfg | 1998.. | 28 873 | 340 014 | 23 716 | — | 5 158 | 7 | |
| | | 1997.. | 27 653 | 325 456 | 22 070 | — | 5 583 | X | |
| 32592 | Explosives mfg | 1998.. | 27 576 | 255 612 | 13 214 | 45 606 | 14 363 | 1 | |
| | | 1997.. | 28 719 | 267 481 | 13 332 | 41 940 | 15 387 | X | |
| 325920 | Explosives mfg | 1998.. | 27 576 | 255 612 | 13 214 | 45 606 | 14 363 | 1 | |
| | | 1997.. | 28 719 | 267 481 | 13 332 | 41 940 | 15 387 | X | |
| 32599 | All other chemical product & preparation mfg | 1998.. | 496 055 | 5 523 863 | 297 001 | 999 258 | 199 053 | 1 | |
| | | 1997.. | 482 817 | 5 163 681 | 287 354 | 975 975 | 195 463 | X | |
| 325991 | Custom compounding of purchased resin | 1998.. | 142 771 | 1 925 253 | 114 977 | — | 27 794 | 2 | |
| | | 1997.. | 132 790 | 1 713 938 | 106 277 | — | 26 513 | X | |
| 325992 | Photographic film, paper, plate, & chemical mfg | 1998.. | 136 024 | 1 509 135 | 75 548 | 924 179 | 60 476 | 1 | |
| | | 1997.. | 139 601 | 1 523 939 | 78 201 | 938 066 | 61 400 | X | |
| 325998 | All other miscellaneous chemical product & preparation mfg | 1998.. | 217 260 | 2 089 475 | 106 477 | 75 079 | 110 783 | 1 | |
| | | 1997.. | 210 426 | 1 925 804 | 102 876 | 37 909 | 107 550 | X | |
| 326 | Plastics & rubber products mfg | 1998.. | 3 351 848 | 50 421 741 | 2 769 843 | 60 409 | 582 006 | 1 | |
| | | 1997.. | 3 364 649 | 50 327 995 | 2 739 003 | 54 370 | 625 646 | X | |
| 3261 | Plastics product mfg | 1998.. | 2 707 416 | 40 743 740 | 2 306 940 | D | 400 476 | 1 | |
| | | 1997.. | 2 716 583 | 40 651 681 | 2 284 044 | D | 432 539 | X | |
| 32611 | Unsupported plastics film, sheet, & bag mfg | 1998.. | 550 444 | 8 713 564 | 453 422 | D | 97 022 | 1 | |
| | | 1997.. | 550 560 | 9 041 361 | 451 411 | D | 99 149 | X | |
| 326111 | Unsupported plastics bag mfg | 1998.. | 156 495 | 2 435 056 | 137 484 | D | 19 011 | 2 | |
| | | 1997.. | 151 396 | 2 632 269 | 134 518 | D | 16 878 | X | |
| 326112 | Unsupported plastics packaging film & sheet mfg | 1998.. | 59 037 | 1 012 848 | 46 071 | — | 12 966 | 3 | |
| | | 1997.. | 60 750 | 943 043 | 45 087 | — | 15 663 | X | |
| 326113 | Unsupported plastics film & sheet (except packaging) mfg | 1998.. | 334 912 | 5 265 660 | 269 867 | D | 65 045 | 1 | |
| | | 1997.. | 338 414 | 5 466 049 | 271 806 | D | 66 608 | X | |
| 32612 | Plastics pipe, pipe fitting, & unsupported profile shape mfg | 1998.. | 201 751 | 3 267 673 | 180 282 | — | 21 469 | 2 | |
| | | 1997.. | 221 958 | 3 573 493 | 199 075 | — | 22 883 | X | |
| 326121 | Unsupported plastics profile shape mfg | 1998.. | 94 274 | 1 358 303 | 79 208 | — | 15 066 | 2 | |
| | | 1997.. | 103 405 | 1 487 070 | 87 384 | — | 16 021 | X | |
| 326122 | Plastics pipe & pipe fitting mfg | 1998.. | 107 477 | 1 909 370 | 101 074 | — | 6 404 | 3 | |
| | | 1997.. | 118 553 | 2 086 423 | 111 691 | — | 6 862 | X | |
| 32613 | Laminated plastics plate, sheet, & shape mfg | 1998.. | 49 416 | 556 079 | 31 085 | — | 18 331 | 1 | |
| | | 1997.. | 55 649 | 605 656 | 33 894 | — | 21 755 | X | |
| 326130 | Laminated plastics plate, sheet, & shape mfg | 1998.. | 49 416 | 556 079 | 31 085 | — | 18 331 | 1 | |
| | | 1997.. | 55 649 | 605 656 | 33 894 | — | 21 755 | X | |
| 32614 | Polystyrene foam product mfg | 1998.. | 130 547 | 1 712 435 | 88 653 | D | 41 894 | 1 | |
| | | 1997.. | 142 314 | 1 620 249 | 87 170 | D | 55 144 | X | |
| 326140 | Polystyrene foam product mfg | 1998.. | 130 547 | 1 712 435 | 88 653 | D | 41 894 | 1 | |
| | | 1997.. | 142 314 | 1 620 249 | 87 170 | D | 55 144 | X | |
| 32615 | Urethane & other foam product (except polystyrene) mfg | 1998.. | 84 250 | 1 022 776 | 63 575 | — | 20 676 | 3 | |
| | | 1997.. | 85 304 | 1 003 605 | 63 862 | — | 21 442 | X | |
| 326150 | Urethane & other foam product (except polystyrene) mfg | 1998.. | 84 250 | 1 022 776 | 63 575 | — | 20 676 | 3 | |
| | | 1997.. | 85 304 | 1 003 605 | 63 862 | — | 21 442 | X | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|---------------------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|--|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | | | | | |
| A | B | C | D | E | C | E | | | |
| 326 | Plastics & rubber products mfg—Con. | | | | | | | | |
| 3261 | Plastics product mfg—Con. | | | | | | | | |
| 32616 | Plastics bottle mfg | 1998.. | 269 977 | 4 645 843 | 259 670 | — | 10 307 4 5 | | |
| | | 1997.. | 242 648 | 4 234 688 | 232 833 | S | 9 815 X X | | |
| 326160 | Plastics bottle mfg | 1998.. | 269 977 | 4 645 843 | 259 670 | — | 10 307 4 5 | | |
| | | 1997.. | 242 648 | 4 234 688 | 232 833 | S | 9 815 X X | | |
| 32619 | Other plastics product mfg | 1998.. | 1 421 030 | 20 825 369 | 1 230 253 | 34 082 | 190 777 1 1 | | |
| | | 1997.. | 1 418 150 | 20 572 629 | 1 215 799 | 28 054 | 202 351 X X | | |
| 326191 | Plastics plumbing fixture mfg | 1998.. | 24 218 | 282 605 | 18 034 | — | 6 184 3 6 | | |
| | | 1997.. | 23 565 | 272 664 | 17 482 | — | 6 083 X X | | |
| 326192 | Resilient floor covering mfg | 1998.. | 41 282 | 462 377 | 30 666 | — | 10 616 1 1 | | |
| | | 1997.. | 40 106 | 435 896 | 29 393 | — | 10 713 X X | | |
| 326199 | All other plastics product mfg | 1998.. | 1 355 531 | 20 080 387 | 1 181 554 | 34 082 | 173 977 1 2 | | |
| | | 1997.. | 1 354 479 | 19 864 069 | 1 168 924 | 28 054 | 185 555 X X | | |
| 3262 | Rubber product mfg | 1998.. | 644 432 | 9 678 001 | 462 903 | D | 181 529 1 2 | | |
| | | 1997.. | 648 066 | 9 676 314 | 454 959 | D | 193 107 X X | | |
| 32621 | Tire mfg | 1998.. | 281 723 | 4 909 583 | 197 414 | — | 84 309 1 2 | | |
| | | 1997.. | 283 557 | 4 856 359 | 193 812 | S | 89 745 X XX | | |
| 326211 | Tire mfg (except retreading) | 1998.. | 268 146 | 4 739 542 | 187 464 | — | 80 682 1 2 | | |
| | | 1997.. | 269 859 | 4 708 327 | 183 793 | S | 86 066 X X | | |
| 326212 | Tire retreading | 1998.. | 13 577 | 170 041 | 9 950 | — | 3 627 6 14 | | |
| | | 1997.. | 13 698 | 148 032 | 10 019 | — | 3 679 X X | | |
| 32622 | Rubber & plastics hoses & belting mfg | 1998.. | 65 861 | 898 835 | 46 107 | — | 19 754 1 5 | | |
| | | 1997.. | 69 087 | 880 496 | 46 671 | — | 22 416 X X | | |
| 326220 | Rubber & plastics hoses & belting mfg | 1998.. | 65 861 | 898 835 | 46 107 | — | 19 754 1 5 | | |
| | | 1997.. | 69 087 | 880 486 | 46 671 | — | 22 416 X X | | |
| 32629 | Other rubber product mfg | 1998.. | 296 848 | 3 869 583 | 219 382 | D | 77 466 1 3 | | |
| | | 1997.. | 295 422 | 3 939 469 | 214 476 | D | 80 946 X X | | |
| 326291 | Rubber product mfg for mechanical use | 1998.. | 139 784 | 1 948 765 | 107 655 | D | 32 129 1 2 | | |
| | | 1997.. | 133 531 | 1 856 841 | 101 070 | D | 32 461 X X | | |
| 326299 | All other rubber product mfg | 1998.. | 157 064 | 1 920 818 | 111 726 | D | 45 338 1 4 | | |
| | | 1997.. | 161 891 | 2 082 628 | 113 406 | D | 48 485 X X | | |
| 327 | Nonmetallic mineral product mfg | 1998.. | 4 110 621 | 38 951 254 | 1 881 221 | 296 290 | 2 229 400 1 1 | | |
| | | 1997.. | 4 057 617 | 37 726 163 | 1 819 994 | 218 575 | 2 237 623 X X | | |
| 3271 | Clay product & refractory mfg | 1998.. | 416 262 | 3 033 139 | 176 402 | D | 239 861 2 3 | | |
| | | 1997.. | 431 071 | 3 048 346 | 174 896 | D | 256 175 X X | | |
| 32711 | Pottery, ceramics, & plumbing fixture mfg | 1998.. | 132 169 | 1 086 926 | 66 618 | D | 65 551 2 1 | | |
| | | 1997.. | 126 441 | 1 061 005 | 61 866 | D | 64 575 X X | | |
| 327111 | Vitreous china plumbing fixture & bathroom accessories mfg | 1998.. | 39 582 | 302 476 | 15 814 | D | 23 768 1 1 | | |
| | | 1997.. | 39 446 | 298 504 | 14 874 | D | 24 572 X X | | |
| 327112 | Vitreous china, fine earthenware, & other pottery product mfg | 1998.. | 45 788 | 340 865 | 21 204 | D | 24 584 1 1 | | |
| | | 1997.. | 44 378 | 350 382 | 20 582 | D | 23 796 X X | | |
| 327113 | Porcelain electrical supply mfg | 1998.. | 46 799 | 443 585 | 29 600 | — | 17 199 4 3 | | |
| | | 1997.. | 42 617 | 412 119 | 26 410 | — | 16 207 X X | | |
| 32712 | Clay building material & refractories mfg | 1998.. | 284 093 | 1 946 213 | 109 783 | D | 174 310 3 4 | | |
| | | 1997.. | 304 630 | 1 987 341 | 113 030 | D | 191 600 X 7 | | |
| 327121 | Brick & structural clay tile mfg | 1998.. | 152 118 | 898 241 | 47 982 | D | 104 136 7 6 | | |
| | | 1997.. | 170 057 | 919 902 | 51 623 | D | 118 434 X X | | |
| 327122 | Ceramic wall & floor tile mfg | 1998.. | 37 996 | 284 534 | 15 613 | — | 22 383 2 6 | | |
| | | 1997.. | 41 268 | 293 200 | 16 079 | — | 25 189 X X | | |
| 327123 | Other structural clay product mfg | 1998.. | 9 706 | 50 206 | 3 550 | — | 6 156 1 1 | | |
| | | 1997.. | 8 884 | 45 614 | 3 240 | — | 5 644 X X | | |
| 327124 | Clay refractory mfg | 1998.. | 31 607 | 193 598 | 12 234 | — | 19 373 3 5 | | |
| | | 1997.. | 30 954 | 196 997 | 12 174 | — | 18 780 X X | | |
| 327125 | Nonclay refractory mfg | 1998.. | 52 666 | 519 634 | 30 405 | — | 22 261 4 1 | | |
| | | 1997.. | 53 467 | 531 628 | 29 914 | — | 23 553 X X | | |
| 3272 | Glass & glass product mfg | 1998.. | 1 096 537 | 12 122 956 | 535 449 | — | 561 088 1 1 | | |
| | | 1997.. | 1 106 075 | 11 759 040 | 530 271 | — | 575 804 X X | | |
| 32721 | Glass & glass product mfg | 1998.. | 1 096 537 | 12 122 956 | 535 449 | — | 561 088 1 1 | | |
| | | 1997.. | 1 106 075 | 11 759 040 | 530 271 | — | 575 804 X X | | |
| 327211 | Flat glass mfg | 1998.. | 216 703 | 1 603 211 | 73 640 | — | 143 063 1 1 | | |
| | | 1997.. | 220 466 | 1 602 433 | 72 857 | — | 147 609 X X | | |
| 327212 | Other pressed & blown glass & glassware mfg | 1998.. | 347 612 | 3 958 900 | 166 983 | — | 180 629 1 1 | | |
| | | 1997.. | 346 419 | 3 849 090 | 166 233 | — | 180 186 X X | | |
| 327213 | Glass container mfg | 1998.. | 351 252 | 3 850 861 | 158 871 | — | 192 381 1 1 | | |
| | | 1997.. | 361 082 | 3 709 154 | 157 489 | — | 203 593 X X | | |
| 327215 | Glass product mfg made of purchased glass | 1998.. | 180 969 | 2 709 984 | 135 954 | — | 45 014 2 2 | | |
| | | 1997.. | 178 108 | 2 598 363 | 133 692 | — | 44 416 X X | | |
| 3273 | Cement & concrete product mfg | 1998.. | 1 428 244 | 13 923 700 | 683 872 | D | 744 372 1 1 | | |
| | | 1997.. | 1 395 270 | 13 555 344 | 659 941 | D | 735 329 X X | | |
| 32731 | Cement mfg | 1998.. | 971 965 | 10 900 783 | 485 238 | D | 486 727 1 1 | | |
| | | 1997.. | 968 515 | 10 798 974 | 482 921 | D | 485 594 X X | | |
| 327310 | Cement mfg | 1998.. | 971 965 | 10 900 783 | 485 238 | D | 486 727 1 1 | | |
| | | 1997.. | 968 515 | 10 798 974 | 482 921 | D | 485 594 X X | | |
| 32732 | Ready-mix concrete mfg | 1998.. | 273 823 | 1 512 891 | 100 690 | 7 980 | 173 134 2 2 | | |
| | | 1997.. | 260 799 | 1 407 869 | 90 637 | 8 032 | 170 162 X X | | |
| 327320 | Ready-mix concrete mfg | 1998.. | 273 823 | 1 512 891 | 100 690 | 7 980 | 173 134 2 2 | | |
| | | 1997.. | 260 799 | 1 407 869 | 90 637 | 8 032 | 170 162 X X | | |
| 32733 | Concrete pipe, brick, & block mfg | 1998.. | 94 529 | 799 959 | 51 614 | D | 42 915 4 5 | | |
| | | 1997.. | 86 655 | 706 575 | 45 269 | D | 41 386 X X | | |
| 327331 | Concrete block & brick mfg | 1998.. | 58 645 | 486 275 | 31 788 | D | 26 856 4 6 | | |
| | | 1997.. | 54 924 | 432 298 | 28 052 | D | 26 872 X X | | |
| 327332 | Concrete pipe mfg | 1998.. | 35 885 | 313 683 | 19 826 | — | 16 059 8 11 | | |
| | | 1997.. | 31 731 | 274 277 | 17 217 | — | 14 514 X X | | |
| 327339 | Other concrete product mfg | 1998.. | 87 927 | 710 068 | 46 331 | — | 41 596 2 2 | | |
| | | 1997.. | 79 301 | 641 926 | 41 114 | — | 38 187 X X | | |
| 327390 | Other concrete product mfg | 1998.. | 87 927 | 710 068 | 46 331 | — | 41 596 2 2 | | |
| | | 1997.. | 79 301 | 641 926 | 41 114 | — | 38 187 X X | | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|------------------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|----|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | C | | E | | |
| A | B | C | D | E | C | E | | | |
| 327 | Nonmetallic mineral product mfg—Con. | | | | | | | | |
| 3274 | Lime & gypsum product mfg | 1998.. 565 585 | 3 082 406 | 150 387 | D | 415 198 | 2 | 3 | |
| | | 1997.. 526 890 | 2 705 072 | 141 138 | D | 385 752 | X | X | |
| 32741 | Lime mfg | 1998.. 274 503 | 1 428 834 | 65 644 | — | 208 859 | 4 | 4 | |
| | | 1997.. 241 416 | 1 135 273 | 57 877 | — | 183 539 | X | X | |
| 327410 | Lime mfg | 1998.. 274 503 | 1 428 834 | 65 644 | — | 208 859 | 4 | 4 | |
| | | 1997.. 241 416 | 1 135 273 | 57 877 | — | 183 539 | X | X | |
| 32742 | Gypsum product mfg | 1998.. 291 083 | 1 653 572 | 84 743 | D | 206 340 | 3 | 3 | |
| | | 1997.. 285 474 | 1 569 799 | 83 261 | D | 202 213 | X | X | |
| 327420 | Gypsum product mfg | 1998.. 291 083 | 1 653 572 | 84 743 | D | 206 340 | 3 | 3 | |
| | | 1997.. 285 474 | 1 569 799 | 83 261 | D | 202 213 | X | X | |
| 3279 | Other nonmetallic mineral product mfg | 1998.. 603 993 | 6 789 053 | 335 111 | D | 268 882 | 3 | 2 | |
| | | 1997.. 598 311 | 6 658 361 | 313 748 | D | 284 563 | X | X | |
| 32791 | Abrasive product mfg | 1998.. 59 492 | 761 269 | 40 586 | D | 18 906 | 24 | 3 | |
| | | 1997.. 72 893 | 941 976 | 49 756 | D | 23 137 | X | X | |
| 327910 | Abrasive product mfg | 1998.. 59 492 | 761 269 | 40 586 | D | 18 906 | 24 | 3 | |
| | | 1997.. 72 893 | 941 976 | 49 756 | D | 23 137 | X | X | |
| 32799 | All other nonmetallic mineral product mfg | 1998.. 544 502 | 6 027 784 | 294 525 | — | 249 976 | 2 | 2 | |
| | | 1997.. 525 418 | 5 716 385 | 263 992 | — | 261 426 | X | X | |
| 327991 | Cut stone & stone product mfg | 1998.. 36 564 | 281 412 | 20 565 | — | 15 999 | 7 | 12 | |
| | | 1997.. 32 728 | 269 198 | 17 344 | — | 15 384 | X | X | |
| 327992 | Ground or treated mineral & earth mfg | 1998.. 145 976 | 1 348 361 | 73 319 | — | 72 656 | 5 | 2 | |
| | | 1997.. 142 847 | 1 386 053 | 64 625 | — | 78 222 | X | X | |
| 327993 | Mineral wool mfg | 1998.. 311 819 | 3 951 761 | 169 874 | — | 141 945 | 2 | 2 | |
| | | 1997.. 303 793 | 3 687 581 | 156 709 | — | 147 084 | X | X | |
| 327999 | All other miscellaneous nonmetallic mineral product mfg | 1998.. 50 143 | 446 250 | 30 767 | — | 19 375 | 12 | 18 | |
| | | 1997.. 46 050 | 373 553 | 25 314 | — | 20 736 | X | X | |
| 331 | Primary metal mfg | 1998.. 7 962 522 | 133 014 859 | 4 803 034 | 13 258 138 | 3 159 487 | 1 | 1 | |
| | | 1997.. 8 065 631 | 132 874 352 | 4 780 552 | 6 063 131 | 3 285 079 | X | X | |
| 3311 | Iron & steel mills & ferroalloy mfg | 1998.. 3 579 953 | 49 083 935 | 1 780 188 | D | 1 799 766 | 1 | 1 | |
| | | 1997.. 3 628 174 | 47 726 652 | 1 791 323 | D | 1 836 851 | X | X | |
| 33111 | Iron & steel mills & ferroalloy mfg | 1998.. 3 579 953 | 49 083 935 | 1 780 188 | D | 1 799 766 | 1 | 1 | |
| | | 1997.. 3 628 174 | 47 726 652 | 1 791 323 | D | 1 836 851 | X | X | |
| 331111 | Iron & steel mills | 1998.. 3 438 312 | 46 126 752 | 1 672 620 | 3 725 351 | 1 765 693 | 1 | 1 | |
| | | 1997.. 3 481 358 | 44 747 817 | 1 681 871 | 3 656 108 | 1 799 487 | X | X | |
| 331112 | Electrometallurgical ferroalloy product mfg | 1998.. 141 641 | 2 957 183 | 107 568 | D | 34 073 | 1 | 1 | |
| | | 1997.. 146 816 | 2 978 835 | 109 452 | D | 37 364 | X | X | |
| 3312 | Steel product mfg from purchased steel | 1998.. 390 845 | 4 747 178 | 269 755 | — | 121 090 | 1 | 1 | |
| | | 1997.. 391 827 | 4 673 810 | 266 642 | — | 125 185 | X | X | |
| 33121 | Iron & steel pipes & tubes mfg from purchased steel | 1998.. 134 543 | 1 446 215 | 94 876 | — | 39 667 | 1 | 1 | |
| | | 1997.. 136 669 | 1 426 171 | 94 072 | — | 42 597 | X | X | |
| 331210 | Iron & steel pipes & tubes mfg from purchased steel | 1998.. 134 543 | 1 446 215 | 94 876 | — | 39 667 | 1 | 1 | |
| | | 1997.. 136 669 | 1 426 171 | 94 072 | — | 42 597 | X | X | |
| 33122 | Rolling & drawing of purchased steel | 1998.. 256 302 | 3 300 963 | 174 878 | — | 81 423 | 1 | 2 | |
| | | 1997.. 255 158 | 3 247 639 | 172 570 | — | 82 588 | X | X | |
| 331221 | Cold-rolled steel shape mfg | 1998.. 133 882 | 1 690 850 | 87 492 | — | 46 390 | 1 | 1 | |
| | | 1997.. 132 073 | 1 627 197 | 84 774 | — | 47 299 | X | X | |
| 331222 | Steel wire drawing | 1998.. 122 420 | 1 610 112 | 87 387 | — | 35 033 | 2 | 4 | |
| | | 1997.. 123 085 | 1 620 442 | 87 796 | — | 35 289 | X | X | |
| 3313 | Alumina & aluminum production & processing | 1998.. 2 003 793 | 51 243 834 | 1 477 744 | D | 526 048 | 1 | 1 | |
| | | 1997.. 2 031 560 | 52 233 488 | 1 437 802 | D | 593 758 | X | X | |
| 33131 | Alumina & aluminum production & processing | 1998.. 2 003 793 | 51 243 834 | 1 477 744 | D | 526 048 | 1 | 1 | |
| | | 1997.. 2 031 560 | 52 233 488 | 1 437 802 | D | 593 758 | X | X | |
| 331311 | Alumina refining | 1998.. 157 198 | 372 189 | 14 756 | 700 917 | 142 442 | 1 | 1 | |
| | | 1997.. 172 584 | 373 330 | 16 057 | 658 309 | 156 527 | X | X | |
| 331312 | Primary aluminum production | 1998.. 1 211 564 | 42 882 931 | 1 130 650 | D | 80 914 | 1 | 1 | |
| | | 1997.. 1 184 024 | 43 426 337 | 1 070 993 | D | 113 031 | X | X | |
| 331314 | Secondary smelting & alloying of aluminum | 1998.. 98 491 | 660 119 | 36 146 | — | 62 345 | 1 | 3 | |
| | | 1997.. 88 860 | 647 786 | 34 469 | — | 54 391 | X | X | |
| 331315 | Aluminum sheet, plate, & foil mfg | 1998.. 335 301 | 4 765 438 | 171 858 | — | 163 443 | 1 | 1 | |
| | | 1997.. 378 556 | 5 214 825 | 192 478 | — | 186 078 | X | X | |
| 331316 | Aluminum extruded product mfg | 1998.. 151 274 | 1 638 955 | 85 261 | — | 66 013 | 1 | 1 | |
| | | 1997.. 154 210 | 1 592 105 | 82 329 | 87 150 | 71 881 | X | X | |
| 331319 | Other aluminum rolling & drawing | 1998.. 49 964 | 924 202 | 39 074 | — | 10 890 | 1 | 1 | |
| | | 1997.. 53 326 | 979 105 | 41 476 | — | 11 850 | X | X | |
| 3314 | Nonferrous metal (except aluminum) production & processing | 1998.. 775 488 | 11 765 106 | 481 846 | 1 236 571 | 293 643 | 1 | 1 | |
| | | 1997.. 818 720 | 12 511 246 | 509 785 | 1 272 485 | 308 935 | X | X | |
| 33141 | Nonferrous metal (except aluminum) smelting & refining | 1998.. 314 171 | 5 897 715 | 191 209 | 1 228 069 | 122 962 | 2 | 1 | |
| | | 1997.. 342 330 | 6 534 603 | 212 751 | 1 265 609 | 129 579 | X | X | |
| 331411 | Primary smelting & refining of copper | 1998.. 117 932 | 1 889 781 | 56 141 | 436 307 | 61 791 | 1 | 1 | |
| | | 1997.. 129 160 | 2 092 878 | 63 553 | 480 706 | 65 607 | X | X | |
| 331419 | Other nonferrous metal primary smelting & refining | 1998.. 196 239 | 4 007 934 | 135 068 | 791 762 | 61 171 | 3 | 1 | |
| | | 1997.. 213 170 | 4 441 725 | 149 198 | 784 903 | 63 972 | X | X | |
| 33142 | Copper rolling, drawing, extruding, & alloying | 1998.. 199 789 | 2 624 252 | 132 334 | D | 67 456 | 1 | 1 | |
| | | 1997.. 203 977 | 2 668 611 | 134 008 | D | 69 969 | X | X | |
| 331421 | Copper rolling, drawing, & extruding | 1998.. 166 029 | 2 272 059 | 110 537 | D | 55 492 | 1 | 1 | |
| | | 1997.. 171 195 | 2 316 305 | 111 902 | D | 59 293 | X | X | |
| 331422 | Copper wire (except mechanical) drawing | 1998.. 11 992 | 161 268 | 9 983 | S | 2 010 | 1 | 13 | |
| | | 1997.. 12 077 | 160 468 | 10 216 | — | 1 861 | X | X | |
| 331423 | Secondary smelting, refining, & alloying of copper | 1998.. 21 768 | 190 925 | 11 814 | — | 9 954 | 1 | 5 | |
| | | 1997.. 20 705 | 191 838 | 11 890 | — | 8 815 | X | X | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------|------------------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|--|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | | | | | |
| A | B | C | D | E | C | E | | | |
| 331 | Primary metal mfg—Con. | | | | | | | | |
| 3314 | Nonferrous metal (except aluminum) production & processing—Con. | | | | | | | | |
| 33149 | Other nonferrous metal rolling, drawing, extruding, & alloying | 1998.. 261 528 1997.. 272 413 | 3 243 140 3 308 032 | 158 303 163 026 | D D | 103 225 109 387 | 2 X X | | |
| 331491 | Other nonferrous metal rolling, drawing, & extruding | 1998.. 172 447 1997.. 184 215 | 2 242 005 2 313 040 | 105 976 110 427 | D D | 66 471 73 788 | 3 X X | | |
| 331492 | Other nonferrous metal secondary smelting, refining, & alloying..... | 1998.. 89 081 1997.. 88 198 | 1 001 135 994 992 | 52 327 52 599 | — — | 36 754 35 599 | 1 X X | | |
| 3315 | Foundries | 1998.. 1 212 443 1997.. 1 195 350 | 16 174 806 15 729 156 | 793 502 775 000 | 3 121 23 041 | 418 940 420 350 | 1 X X | | |
| 33151 | Ferrous metal foundries | 1998.. 841 132 1997.. 848 369 | 12 044 587 11 786 310 | 567 932 564 351 | 25 21 231 | 273 200 284 018 | 1 X X | | |
| 331511 | Iron foundries | 1998.. 636 107 1997.. 645 828 | 9 132 937 8 938 479 | 420 277 421 716 | D D | 215 831 224 112 | 1 X X | | |
| 331512 | Steel investment foundries | 1998.. 70 933 1997.. 70 669 | 880 524 866 668 | 50 356 50 513 | D D | 20 577 20 156 | 5 X X | | |
| 331513 | Steel foundries (except investment) | 1998.. 134 092 1997.. 131 872 | 2 031 125 1 981 163 | 97 299 92 122 | — — | 36 793 39 750 | 1 X X | | |
| 33152 | Nonferrous metal foundries | 1998.. 371 310 1997.. 346 981 | 4 130 220 3 942 846 | 225 571 210 649 | 3 096 1 810 | 145 740 136 332 | 1 X X | | |
| 331521 | Aluminum die-casting foundries | 1998.. 131 587 1997.. 127 539 | 1 412 711 1 370 587 | 75 950 71 986 | D D | 55 637 55 553 | 3 X X | | |
| 331522 | Nonferrous (except aluminum) die-casting foundries..... | 1998.. 57 044 1997.. 47 942 | 581 729 498 791 | 37 300 31 691 | — — | 19 744 16 251 | 3 X X | | |
| 331524 | Aluminum foundries (except die-casting) | 1998.. 127 435 1997.. 120 686 | 1 475 560 1 435 449 | 73 476 70 705 | D D | 53 958 49 981 | 2 X X | | |
| 331525 | Copper foundries (except die-casting) | 1998.. 32 466 1997.. 29 200 | 377 455 363 833 | 23 577 21 787 | — — | 8 890 7 413 | 6 X X | | |
| 331528 | Other nonferrous foundries (except die-casting) | 1998.. 22 778 1997.. 21 614 | 282 764 274 186 | 15 268 14 480 | — — | 7 510 7 134 | 1 X X | | |
| 332 | Fabricated metal product mfg | 1998.. 3 736 992 1997.. 3 701 764 | 42 195 469 41 256 891 | 2 562 515 2 509 152 | 192 713 80 093 | 1 174 478 1 192 612 | 1 X X | | |
| 3321 | Forging & stamping | 1998.. 463 320 1997.. 472 610 | 4 886 438 4 802 229 | 296 359 294 085 | 10 962 — | 166 962 178 525 | 1 X X | | |
| 33211 | Forging & stamping | 1998.. 463 320 1997.. 472 610 | 4 886 438 4 802 229 | 296 359 294 085 | 10 962 — | 166 962 178 525 | 1 X X | | |
| 332111 | Iron & steel forging | 1998.. 186 082 1997.. 174 893 | 1 777 000 1 664 287 | 104 356 96 693 | — — | 81 726 78 200 | 1 X X | | |
| 332112 | Nonferrous forging | 1998.. 53 999 1997.. 52 087 | 469 541 455 565 | 26 917 27 067 | S — | 27 082 25 020 | 1 X X | | |
| 332114 | Custom roll forming | 1998.. 30 260 1997.. 29 460 | 357 276 325 065 | 22 604 21 278 | — — | 7 657 8 182 | 3 X X | | |
| 332115 | Crown & closure mfg | 1998.. 19 138 1997.. 20 452 | 203 941 203 225 | 10 989 11 379 | — — | 8 149 9 073 | 1 X X | | |
| 332116 | Metal stamping | 1998.. 142 048 1997.. 163 764 | 1 666 790 1 749 926 | 108 861 115 361 | S — | 33 187 48 403 | 3 X X | | |
| 332117 | Powder metallurgy part mfg | 1998.. 31 792 1997.. 31 954 | 411 890 404 161 | 22 631 22 307 | — — | 9 161 9 647 | 2 X X | | |
| 3322 | Cutlery & handtool mfg | 1998.. 141 223 1997.. 147 584 | 1 672 759 1 728 949 | 104 991 107 888 | 69 792 57 534 | 36 232 39 696 | 1 X X | | |
| 33221 | Cutlery & handtool mfg | 1998.. 141 223 1997.. 147 584 | 1 672 759 1 728 949 | 104 991 107 888 | 69 792 57 534 | 36 232 39 696 | 1 X X | | |
| 332211 | Cutlery & flatware (except precious) mfg | 1998.. 22 315 1997.. 24 061 | 218 515 236 076 | 15 837 17 018 | D D | 6 478 7 043 | 4 X X | | |
| 332212 | Hand & edge tool mfg | 1998.. 81 984 1997.. 84 594 | 1 014 158 1 036 552 | 61 353 62 240 | D D | 20 631 22 354 | 2 X X | | |
| 332213 | Saw blade & handsaw mfg | 1998.. 18 628 1997.. 18 748 | 242 576 250 225 | 16 509 16 529 | — — | 2 119 2 219 | 1 X X | | |
| 332214 | Kitchen utensil, pot, & pan mfg | 1998.. 18 295 1997.. 20 181 | 197 509 206 096 | 11 291 12 101 | — — | 7 004 8 080 | 2 X X | | |
| 3323 | Architectural & structural metals mfg | 1998.. 530 771 1997.. 499 440 | 5 593 271 5 278 570 | 351 286 332 736 | S — | 179 486 166 704 | 1 X X | | |
| 33231 | Plate work & fabricated structural product mfg | 1998.. 220 937 1997.. 209 185 | 2 228 365 2 181 804 | 138 599 136 608 | S — | 82 337 72 577 | 1 X X | | |
| 332311 | Prefabricated metal building & component mfg | 1998.. 29 103 1997.. 29 378 | 313 232 305 143 | 17 516 18 302 | — — | 11 587 11 076 | 6 X X | | |
| 332312 | Fabricated structural metal mfg | 1998.. 150 481 1997.. 136 929 | 1 539 881 1 511 266 | 96 933 94 492 | S — | 53 547 42 437 | 1 X X | | |
| 332313 | Plate work mfg | 1998.. 41 353 1997.. 42 878 | 375 252 365 395 | 24 150 23 814 | — — | 17 203 19 064 | 2 X X | | |
| 33232 | Ornamental & architectural metal products mfg | 1998.. 309 835 1997.. 290 255 | 3 364 906 3 096 766 | 212 687 196 128 | S — | 97 148 94 127 | 1 X X | | |
| 332321 | Metal window & door mfg | 1998.. 88 979 1997.. 79 710 | 999 369 913 161 | 61 428 55 566 | — — | 27 551 24 144 | 1 X X | | |
| 332322 | Sheet metal work mfg | 1998.. 175 888 1997.. 167 218 | 1 895 065 1 744 862 | 121 178 112 176 | S — | 54 711 55 042 | 2 X X | | |
| 332323 | Ornamental & architectural metal work mfg | 1998.. 44 968 1997.. 43 327 | 470 471 438 743 | 30 081 28 386 | — — | 14 887 14 941 | 2 X X | | |
| 3324 | Boiler, tank, & shipping container mfg | 1998.. 331 980 1997.. 357 470 | 4 245 717 4 547 371 | 236 895 250 900 | S — | 95 085 106 570 | 1 X X | | |
| 33241 | Power boiler & heat exchanger mfg | 1998.. 45 067 1997.. 42 978 | 500 473 470 803 | 31 095 29 273 | — — | 13 971 13 705 | 2 X X | | |
| 332410 | Power boiler & heat exchanger mfg | 1998.. 45 067 1997.. 42 978 | 500 473 470 803 | 31 095 29 273 | — — | 13 971 13 705 | 2 X X | | |
| 33242 | Metal tank (heavy gauge) mfg | 1998.. 63 312 1997.. 63 149 | 692 785 663 396 | 42 755 40 832 | — — | 20 558 22 317 | 3 X X | | |
| 332420 | Metal tank (heavy gauge) mfg | 1998.. 63 312 1997.. 63 149 | 692 785 663 396 | 42 755 40 832 | — — | 20 558 22 317 | 3 X X | | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|------------------------------------------------------------------------|-------------------------------------------------------|------------------------|--------------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|--|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | | | | | |
| A | B | C | D | E | C | E | | | |
| 332 | Fabricated metal product mfg—Con. | | | | | | | | |
| 3324 | Boiler, tank, & shipping container mfg—Con. | | | | | | | | |
| 33243 | Metal can, box, & other metal container (light gauge) mfg | 1998.. 223 601 1997.. 251 343 | 3 052 459 3 413 172 | 163 045 180 795 | S | 60 556 70 548 | 1 X | | |
| 332431 | Metal can mfg | 1997.. 185 532 | 2 706 744 | 139 759 | — | 45 772 | 1 X | | |
| 332439 | Other metal container mfg | 1998.. 214 871 1997.. 38 070 | 3 092 099 345 714 | 159 132 23 286 | S | 55 739 14 784 | 3 1 X | | |
| | | 1997.. 36 472 | 321 073 | 21 663 | — | 14 809 | X X | | |
| 3325 | Hardware mfg | 1998.. 106 777 1997.. 111 650 | 1 236 469 1 268 570 | 77 057 78 705 | D | 29 721 32 945 | 1 X | | |
| 33251 | Hardware mfg | 1998.. 106 777 1997.. 111 650 | 1 236 469 1 268 570 | 77 057 78 705 | D | 29 721 32 945 | 1 X | | |
| 332510 | Hardware mfg | 1998.. 106 777 1997.. 111 650 | 1 236 469 1 268 570 | 77 057 78 705 | D | 29 721 32 945 | 1 X | | |
| 3326 | Spring & wire product mfg | 1998.. 139 058 1997.. 129 843 | 1 598 779 1 463 487 | 95 303 88 515 | D | 43 755 41 328 | 1 X | | |
| 33261 | Spring & wire product mfg | 1998.. 139 058 1997.. 129 843 | 1 598 779 1 463 487 | 95 303 88 515 | D | 43 755 41 328 | 1 X | | |
| 332611 | Spring (heavy gauge) mfg | 1998.. 23 034 1997.. 19 630 | 218 110 177 916 | 13 758 11 266 | — | 9 276 8 364 | 1 X | | |
| 332612 | Spring (light gauge) mfg | 1998.. 33 715 1997.. 31 349 | 400 348 354 303 | 23 643 21 458 | — | 10 072 9 891 | 3 X | | |
| 332618 | Other fabricated wire product mfg | 1998.. 82 309 1997.. 78 864 | 980 321 931 268 | 57 902 55 791 | D | 24 407 23 073 | 2 X | | |
| | | 1997.. 78 864 | 931 268 | 55 791 | D | 23 073 | X X | | |
| 3327 | Machine shops, turned product, & screw, nut, & bolt mfg | 1998.. 574 323 1997.. 574 223 | 6 619 696 6 430 349 | 441 184 432 643 | 13 406 10 038 | 133 139 141 580 | 3 X | | |
| 33271 | Machine shops | 1998.. 332 319 1997.. 336 379 | 3 927 572 3 821 612 | 255 804 252 976 | 11 950 4 091 | 76 516 83 403 | 6 X | | |
| 332710 | Machine shops | 1998.. 332 319 1997.. 336 379 | 3 927 572 3 821 612 | 255 804 252 976 | 11 950 4 091 | 76 516 83 403 | 6 X | | |
| 33272 | Turned product & screw, nut, & bolt mfg | 1998.. 242 003 1997.. 237 844 | 2 692 125 2 608 737 | 185 380 179 667 | 1 456 5 947 | 56 623 58 177 | 2 X | | |
| 332721 | Precision turned product mfg | 1998.. 112 239 1997.. 106 691 | 1 331 648 1 268 743 | 90 669 86 790 | S | 21 570 — | 2 X | | |
| 332722 | Bolt, nut, screw, rivet, & washer mfg | 1998.. 129 764 1997.. 131 153 | 1 360 477 1 339 994 | 94 711 92 877 | 1 551 5 947 | 19 901 35 053 | 2 X | | |
| | | 1997.. 131 153 | 1 339 994 | 92 877 | 5 947 | 38 276 | X X | | |
| 3328 | Coating, engraving, heat treating, & allied activities | 1998.. 734 560 1997.. 710 016 | 6 990 851 6 730 654 | 428 270 414 044 | 38 201 4 124 | 306 289 295 972 | 1 X | | |
| 33281 | Coating, engraving, heat treating, & allied activities | 1998.. 734 560 1997.. 710 016 | 6 990 851 6 730 654 | 428 270 414 044 | 38 201 4 124 | 306 289 295 972 | 1 X | | |
| 332811 | Metal heat treating | 1998.. 215 617 1997.. 204 057 | 1 844 858 1 800 056 | 114 384 112 167 | 24 850 2 716 | 101 234 91 890 | 4 X | | |
| 332812 | Metal coating/engraving (exc jewelry/silverware)/allied services | 1998.. 261 050 1997.. 243 653 | 2 448 982 2 266 811 | 141 865 130 377 | 470 1 243 | 119 185 113 276 | 2 X | | |
| 332813 | Electroplating, plating, polishing, anodizing, & coloring | 1998.. 257 892 1997.. 262 306 | 2 697 010 2 663 787 | 172 022 171 500 | 12 881 165 | 85 870 90 806 | 2 X | | |
| | | 1997.. 262 306 | 2 663 787 | 171 500 | 165 | 90 806 | X X | | |
| 3329 | Other fabricated metal product mfg | 1998.. 714 980 1997.. 698 928 | 9 351 489 9 006 712 | 531 170 509 636 | 53 204 2 594 | 183 810 189 292 | 1 X | | |
| 33291 | Metal valve mfg | 1998.. 227 428 1997.. 223 041 | 3 210 906 3 075 049 | 184 423 178 172 | D | 43 004 44 869 | 1 X | | |
| 332911 | Industrial valve mfg | 1998.. 99 597 1997.. 94 788 | 1 395 812 1 321 327 | 83 498 77 594 | D | 16 100 17 194 | 3 X | | |
| 332912 | Fluid power valve & hose fitting mfg | 1998.. 50 326 1997.. 51 958 | 830 414 790 998 | 44 349 44 695 | — | 5 977 7 263 | 1 X | | |
| 332913 | Plumbing fixture fitting & trim mfg | 1998.. 27 470 1997.. 26 926 | 308 168 291 081 | 18 888 18 895 | D | 8 582 8 031 | 3 X | | |
| 332919 | Other metal valve & pipe fitting mfg | 1998.. 50 034 1997.. 49 369 | 676 513 671 643 | 37 689 36 988 | S | 12 346 12 381 | 3 X | | |
| 33299 | All other fabricated metal product mfg | 1998.. 487 552 1997.. 475 887 | 6 140 583 5 931 663 | 346 747 331 464 | D | 140 805 144 423 | 1 X | | |
| 332991 | Ball & roller bearing mfg | 1998.. 130 184 1997.. 130 391 | 1 902 751 1 856 456 | 94 411 91 464 | — | 35 773 38 927 | 1 X | | |
| 332992 | Small arms ammunition mfg | 1998.. 13 904 1997.. 16 586 | 215 122 226 572 | 8 894 9 576 | S | 5 010 7 010 | 1 X | | |
| 332993 | Ammunition (except small arms) mfg | 1998.. 21 137 1997.. 21 520 | 246 119 238 767 | 15 043 14 650 | S | 6 094 6 870 | 1 X | | |
| 332994 | Small arms mfg | 1998.. 19 719 1997.. 18 940 | 194 723 201 557 | 15 395 15 111 | — | 4 324 3 829 | 1 X | | |
| 332995 | Other ordnance & accessories mfg | 1998.. 16 223 1997.. 17 117 | 239 849 234 948 | 11 843 11 650 | — | 4 380 5 467 | 1 X | | |
| 332996 | Fabricated pipe & pipe fitting mfg | 1998.. 57 119 1997.. 54 720 | 619 968 599 094 | 37 221 37 235 | S | 19 898 17 485 | 2 X | | |
| 332997 | Industrial pattern mfg | 1998.. 8 998 1997.. 9 877 | 93 824 103 812 | 6 053 6 540 | S | 2 946 3 337 | 6 X | | |
| 332998 | Enameling iron & metal sanitary ware mfg | 1998.. 37 741 1997.. 36 358 | 493 212 471 304 | 25 139 23 898 | — | 12 602 12 460 | 1 X | | |
| 332999 | All other miscellaneous fabricated metal product mfg | 1998.. 182 527 1997.. 170 378 | 2 135 016 1 999 153 | 132 748 121 340 | D | 49 779 49 038 | 2 X | | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------|------------------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|---------|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | C | | E | | |
| A | B | C | D | E | | | | | |
| 333 | Machinery mfg | 1998.. 2 057 893 1997.. 2 068 747 | 27 231 106 26 985 172 | 1 569 607 1 556 679 | 65 352 22 191 | 488 286 512 068 | 1 X | 1 X | |
| 3331 | Agriculture, construction, & mining machinery mfg | 1998.. 352 946 1997.. 350 482 | 5 000 161 4 994 926 | 244 690 239 463 | 5 614 11 864 | 108 255 111 019 | 1 X | 2 X | |
| 33311 | Agricultural implement mfg | 1998.. 143 145 1997.. 142 413 | 2 003 033 1 992 948 | 93 925 90 474 | S 11 864 | 49 220 51 939 | 1 X | 2 X | |
| 333111 | Farm machinery & equipment mfg | 1998.. 105 403 1997.. 107 744 | 1 484 982 1 487 749 | 67 436 66 786 | S 11 864 | 37 967 40 958 | 1 X | 2 X | |
| 333112 | Lawn & garden tractor & home lawn & garden equipment mfg | 1998.. 37 743 1997.. 34 669 | 518 051 505 199 | 26 490 23 688 | 50 — | 11 253 10 981 | 2 X | 4 X | |
| 33312 | Construction machinery mfg | 1998.. 131 692 1997.. 137 637 | 1 882 207 1 990 002 | 89 267 93 921 | 15 580 15 580 | 42 425 43 716 | 2 X | 5 X | |
| 333120 | Construction machinery mfg | 1998.. 131 692 1997.. 137 637 | 1 882 207 1 990 002 | 89 267 93 921 | 15 580 — | 42 425 43 716 | 2 X | 5 X | |
| 33313 | Mining & oil & gas field machinery mfg | 1998.. 78 109 1997.. 70 432 | 1 114 921 1 011 976 | 61 498 55 068 | — | 16 610 15 364 | 2 X | 1 X | |
| 333131 | Mining machinery & equipment mfg | 1998.. 26 726 1997.. 23 176 | 336 460 278 451 | 18 961 16 246 | — | 7 765 6 930 | 5 X | 2 X | |
| 333132 | Oil & gas field machinery & equipment mfg | 1998.. 51 383 1997.. 47 256 | 778 461 733 525 | 42 537 38 822 | — | 8 845 8 434 | 1 X | 1 X | |
| 3332 | Industrial machinery mfg | 1998.. 243 909 1997.. 256 379 | 2 872 703 2 967 168 | 191 947 198 401 | 53 857 | 51 962 57 978 | 1 X | 4 X | |
| 33321 | Sawmill & woodworking machinery mfg | 1998.. 9 188 1997.. 10 192 | 130 380 136 312 | 7 353 7 301 | — | 1 835 2 891 | 4 X | 22 X | |
| 333210 | Sawmill & woodworking machinery mfg | 1998.. 9 188 1997.. 10 192 | 130 380 136 312 | 7 353 7 301 | — | 1 835 2 891 | 4 X | 22 X | |
| 33322 | Plastics & rubber industry machinery mfg | 1998.. 23 570 1997.. 23 363 | 249 859 239 213 | 16 309 15 760 | — | 7 261 7 603 | 5 X | 4 X | |
| 333220 | Plastics & rubber industry machinery mfg | 1998.. 23 570 1997.. 23 363 | 249 859 239 213 | 16 309 15 760 | — | 7 261 7 603 | 5 X | 4 X | |
| 33329 | Other industrial machinery mfg | 1998.. 211 152 1997.. 222 824 | 2 492 464 2 591 643 | 168 285 175 340 | 53 857 | 42 867 47 484 | 1 X | 5 X | |
| 333291 | Paper industry machinery mfg | 1998.. 21 871 1997.. 21 956 | 247 426 244 342 | 16 358 16 485 | — | 5 513 5 471 | 3 X | 6 X | |
| 333292 | Textile machinery mfg | 1998.. 15 759 1997.. 16 714 | 211 893 223 516 | 12 504 13 106 | — | 3 255 3 608 | 5 X | 20 X | |
| 333293 | Printing machinery & equipment mfg | 1998.. 26 919 1997.. 27 362 | 355 421 349 061 | 21 677 21 890 | — | 5 242 5 472 | 4 X | 3 X | |
| 333294 | Food product machinery mfg | 1998.. 18 861 1997.. 18 276 | 229 266 221 332 | 13 785 13 385 | — | 5 075 4 891 | 3 X | 8 X | |
| 333295 | Semiconductor machinery mfg | 1998.. 64 252 1997.. 73 551 | 721 521 793 873 | 54 040 62 067 | D | 10 212 11 484 | 3 X | 12 X | |
| 333298 | All other industrial machinery mfg | 1998.. 63 491 1997.. 64 965 | 726 937 759 519 | 49 922 48 407 | D | 13 569 16 558 | 2 X | 10 X | |
| 3333 | Commercial & service industry machinery mfg | 1998.. 173 962 1997.. 174 978 | 2 148 714 2 099 757 | 137 664 137 515 | S | 36 298 37 463 | 1 X | 1 X | |
| 33331 | Commercial & service industry machinery mfg | 1998.. 173 962 1997.. 174 978 | 2 148 714 2 099 757 | 137 664 137 515 | SS | 36 298 37 463 | 1 X | 1 X | |
| 333311 | Automatic vending machine mfg | 1998.. 8 993 1997.. 8 704 | 124 891 117 107 | 6 950 6 657 | SS | 2 043 2 047 | 1 X | 1 X | |
| 333312 | Commercial laundry, drycleaning, & pressing machine mfg | 1998.. 4 607 1997.. 4 780 | 65 660 65 238 | 3 362 3 454 | — | 1 245 1 326 | 1 X | 1 X | |
| 333313 | Office machinery mfg | 1998.. 17 632 1997.. 18 486 | 208 966 211 399 | 13 730 14 558 | — | 3 901 3 928 | 1 X | 2 X | |
| 333314 | Optical instrument & lens mfg | 1998.. 36 193 1997.. 35 076 | 453 485 446 680 | 30 536 28 790 | S | 5 657 6 286 | 2 X | 3 X | |
| 333315 | Photographic & photocopying equipment mfg | 1998.. 47 526 1997.. 49 021 | 573 012 553 282 | 37 199 39 113 | — | 10 327 9 908 | 1 X | 1 X | |
| 333319 | Other commercial & service industry machinery mfg | 1998.. 59 012 1997.. 58 911 | 722 701 706 051 | 45 887 44 943 | S | 13 125 13 968 | 1 X | 2 X | |
| 3334 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 1998.. 230 813 1997.. 223 537 | 3 232 132 3 052 472 | 174 051 165 702 | — | 56 762 57 835 | 4 X | 2 X | |
| 33341 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 1998.. 230 813 1997.. 223 537 | 3 232 132 3 052 472 | 174 051 165 702 | — | 56 762 57 835 | 4 X | 2 X | |
| 333411 | Air purification equipment mfg | 1998.. 29 216 1997.. 21 926 | 479 700 305 030 | 23 387 16 439 | — | 5 829 5 487 | 31 X | 7 X | |
| 333412 | Industrial & commercial fan & blower mfg | 1998.. 16 434 1997.. 20 054 | 184 788 278 080 | 10 906 15 518 | — | 5 528 4 536 | 9 X | 17 X | |
| 333414 | Heating equipment (except warm air furnaces) mfg | 1998.. 31 614 1997.. 33 246 | 338 156 343 534 | 21 184 21 454 | — | 10 429 11 792 | 4 X | 3 X | |
| 333415 | AC & warm air heating & commercial/industrial refrig equip mfg | 1998.. 153 549 1997.. 148 311 | 2 229 488 2 125 828 | 118 573 112 291 | — | 34 976 36 020 | 1 X | 1 X | |
| 3335 | Metalworking machinery mfg | 1998.. 328 628 1997.. 332 445 | 3 932 161 3 997 548 | 259 524 264 005 | 21 173 905 | 69 104 68 440 | 3 X | 2 X | |
| 33351 | Metalworking machinery mfg | 1998.. 328 628 1997.. 332 445 | 3 932 161 3 997 548 | 259 524 264 005 | 21 173 905 | 69 104 68 440 | 3 X | 2 X | |
| 333511 | Industrial mold mfg | 1998.. 62 739 1997.. 64 975 | 701 769 757 260 | 48 255 50 694 | — | 14 484 14 281 | 10 X | 3 X | |
| 333512 | Machine tool (metal cutting types) mfg | 1998.. 37 080 1997.. 41 787 | 465 095 496 131 | 29 460 33 277 | — | 7 620 8 510 | 4 X | 5 X | |
| 333513 | Machine tool (metal forming types) mfg | 1998.. 18 700 1997.. 18 259 | 232 180 218 306 | 13 986 13 330 | — | 4 714 4 929 | 2 X | 1 X | |
| 333514 | Special die & tool, die set, jig, & fixture mfg | 1998.. 104 719 1997.. 98 655 | 1 182 469 1 131 339 | 80 681 76 797 | 12 524 | 24 037 21 858 | 2 X | 3 X | |
| 333515 | Cutting tool & machine tool accessory mfg | 1998.. 77 872 1997.. 78 713 | 1 041 245 1 053 976 | 65 374 66 885 | D | 12 498 11 828 | 8 X | 6 X | |
| 333516 | Rolling mill machinery & equipment mfg | 1998.. 8 350 1997.. 9 993 | 90 897 123 163 | 6 265 7 299 | — | 2 085 2 694 | 4 X | 4 X | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|-----------------------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|--|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | | | | | |
| A | B | C | D | E | C | E | | | |
| 333 | Machinery mfg—Con. | | | | | | | | |
| 3335 | Metalworking machinery mfg—Con. | | | | | | | | |
| 33351 | Metalworking machinery mfg—Con. | | | | | | | | |
| 333518 | Other metalworking machinery mfg | 19 167 1998.. | 218 507 | 15 502 | D | 3 665 4 340 | 3 X | | |
| | | 20 063 1997.. | 217 373 | 15 723 | D | | 9 X | | |
| 3336 | Engine, turbine, & power transmission equipment mfg | 252 214 1998.. | 3 873 208 | 191 257 | 25 248 | 60 957 60 486 | 1 X | | |
| | | 248 580 1997.. | 3 763 906 | 188 094 | 19 766 | | 3 X | | |
| 33361 | Engine, turbine, & power transmission equipment mfg | 252 214 1998.. | 3 873 208 | 191 257 | 25 248 | 60 957 60 486 | 1 X | | |
| | | 248 580 1997.. | 3 763 906 | 188 094 | 19 766 | | 3 X | | |
| 333611 | Turbine & turbine generator set unit mfg | 44 909 1998.. | 618 819 | 35 960 | 14 290 | 8 949 8 021 | 1 7 | | |
| | | 41 002 1997.. | 586 515 | 32 981 | 9 868 | | X | | |
| 333612 | Speed changer, industrial high-speed drive, & gear mfg | 33 290 1998.. | 380 495 | 22 378 | — | 10 911 7 351 | 2 X | | |
| | | 28 241 1997.. | 375 319 | 20 890 | — | | 16 X | | |
| 333613 | Mechanical power transmission equipment mfg | 43 853 1998.. | 586 203 | 34 544 | — | 9 309 10 081 | 1 X | | |
| | | 45 058 1997.. | 622 116 | 34 977 | — | | 3 X | | |
| 333618 | Other engine equipment mfg | 130 162 1998.. | 2 287 691 | 98 375 | 10 958 | 31 788 9 898 | 2 X | | |
| | | 134 279 1997.. | 2 179 956 | 99 246 | 9 898 | | 2 X | | |
| 3339 | Other general-purpose machinery mfg | 475 421 1998.. | 6 172 026 | 370 474 | S | 104 947 118 847 | 1 X | | |
| | | 482 346 1997.. | 6 109 395 | 363 499 | 121 | | 5 X | | |
| 33391 | Pump & compressor mfg | 107 773 1998.. | 1 421 900 | 85 394 | S | 22 379 23 316 | 2 X | | |
| | | 107 163 1997.. | 1 408 832 | 83 847 | 121 | | 3 X | | |
| 333911 | Pump & pumping equipment mfg | 62 416 1998.. | 845 454 | 51 159 | S | 11 257 11 949 | 3 X | | |
| | | 61 488 1997.. | 814 268 | 49 539 | 121 | | 1 X | | |
| 333912 | Air & gas compressor mfg | 38 456 1998.. | 485 363 | 29 284 | — | 9 172 10 113 | 1 X | | |
| | | 39 340 1997.. | 496 227 | 29 227 | — | | X | | |
| 333913 | Measuring & dispensing pump mfg | 6 901 1998.. | 91 083 | 4 952 | — | 1 949 1 254 | 1 X | | |
| | | 6 335 1997.. | 98 337 | 5 081 | — | | 8 X | | |
| 33392 | Material handling equipment mfg | 99 028 1998.. | 1 295 766 | 75 043 | — | 23 985 31 569 | 4 X | | |
| | | 101 642 1997.. | 1 245 612 | 70 073 | — | | 19 X | | |
| 333921 | Elevator & moving stairway mfg | 9 312 1998.. | 124 908 | 6 543 | — | 2 769 3 373 | 25 X | | |
| | | 11 134 1997.. | 136 932 | 7 761 | — | | 20 X | | |
| 333922 | Conveyor & conveying equipment mfg | 35 804 1998.. | 433 288 | 26 997 | — | 8 807 13 285 | 2 X | | |
| | | 38 924 1997.. | 438 089 | 25 639 | — | | 33 X | | |
| 333923 | Overhead traveling crane, hoist, & monorail system mfg | 21 160 1998.. | 283 604 | 17 361 | — | 3 800 6 741 | 16 X | | |
| | | 21 205 1997.. | 251 821 | 14 464 | — | | 91 X | | |
| 333924 | Industrial truck, tractor, trailer, & stacker machinery mfg | 32 751 1998.. | 453 966 | 24 141 | — | 8 610 8 170 | 1 X | | |
| | | 30 379 1997.. | 418 770 | 22 209 | — | | 3 X | | |
| 33399 | All other general-purpose machinery mfg | 268 620 1998.. | 3 454 360 | 210 037 | S | 58 584 63 962 | 1 X | | |
| | | 273 541 1997.. | 3 454 951 | 209 579 | S | | X | | |
| 333991 | Power-driven handtool mfg | 25 164 1998.. | 398 849 | 21 256 | — | 3 909 3 748 | 1 X | | |
| | | 23 647 1997.. | 365 119 | 19 899 | — | | X | | |
| 333992 | Welding & soldering equipment mfg | 43 594 1998.. | 498 237 | 31 594 | — | 12 000 12 961 | 1 X | | |
| | | 44 615 1997.. | 503 224 | 31 654 | — | | 11 X | | |
| 333993 | Packaging machinery mfg | 27 339 1998.. | 324 785 | 20 795 | — | 6 544 6 986 | 10 X | | |
| | | 28 904 1997.. | 340 465 | 21 918 | — | | X | | |
| 333994 | Industrial process furnace & oven mfg | 22 149 1998.. | 229 713 | 15 824 | 3 800 | 6 326 6 408 | 3 X | | |
| | | 22 386 1997.. | 227 123 | 15 978 | — | | X | | |
| 333995 | Fluid power cylinder & actuator mfg | 35 149 1998.. | 508 330 | 29 134 | — | 6 015 9 584 | 2 X | | |
| | | 39 304 1997.. | 508 924 | 29 720 | — | | 5 X | | |
| 333996 | Fluid power pump & motor mfg | 29 728 1998.. | 491 228 | 26 409 | S | 3 319 3 409 | 1 X | | |
| | | 29 019 1997.. | 466 755 | 25 610 | S | | X | | |
| 333997 | Scale & balance (except laboratory) mfg | 3 841 1998.. | 49 798 | 3 081 | — | 759 837 | 3 X | | |
| | | 3 916 1997.. | 49 683 | 3 079 | — | | X | | |
| 333999 | All other miscellaneous general-purpose machinery mfg | 81 655 1998.. | 953 419 | 61 943 | S | 19 712 20 029 | 2 X | | |
| | | 81 750 1997.. | 993 658 | 61 721 | S | | X | | |
| 334 | Computer & electronic product mfg | 2 607 081 1998.. | 37 389 343 | 2 237 722 | S | 369 359 413 022 | 1 X | | |
| | | 2 642 922 1997.. | 37 831 057 | 2 229 900 | S | | X | | |
| 3341 | Computer & peripheral equipment mfg | 323 989 1998.. | 5 144 923 | 282 611 | 10 528 | 41 378 61 133 | 1 X | | |
| | | 311 131 1997.. | 4 434 082 | 249 998 | 2 105 | | X | | |
| 33411 | Computer & peripheral equipment mfg | 323 989 1998.. | 5 144 923 | 282 611 | 10 528 | 41 378 61 133 | 1 X | | |
| | | 311 131 1997.. | 4 434 082 | 249 998 | 2 105 | | X | | |
| 334111 | Electronic computer mfg | 106 130 1998.. | 1 407 883 | 95 064 | D | 11 066 11 725 | 1 X | | |
| | | 108 947 1997.. | 1 697 183 | 97 222 | — | | X | | |
| 334112 | Computer storage device mfg | 84 771 1998.. | 1 666 620 | 79 383 | D | 5 388 24 296 | 1 X | | |
| | | 73 824 1997.. | 899 444 | 49 528 | D | | X | | |
| 334113 | Computer terminal mfg | 7 252 1998.. | 102 012 | 6 785 | — | 467 624 | 2 X | | |
| | | 8 679 1997.. | 110 103 | 8 055 | — | | X | | |
| 334119 | Other computer peripheral equipment mfg | 125 837 1998.. | 1 968 408 | 101 379 | S | 24 458 24 488 | 3 X | | |
| | | 119 681 1997.. | 1 727 352 | 95 193 | S | | X | | |
| 3342 | Communications equipment mfg | 291 929 1998.. | 4 078 393 | 258 488 | S | 33 441 38 871 | 1 X | | |
| | | 313 101 1997.. | 4 310 144 | 274 230 | S | | X | | |
| 33421 | Telephone apparatus mfg | 109 768 1998.. | 1 473 508 | 96 337 | 101 | 13 432 16 123 | 1 X | | |
| | | 106 590 1997.. | 1 430 093 | 90 467 | — | | X | | |
| 334210 | Telephone apparatus mfg | 109 768 1998.. | 1 473 508 | 96 337 | 101 | 13 432 16 123 | 1 X | | |
| | | 106 590 1997.. | 1 430 093 | 90 467 | — | | X | | |
| 33422 | Radio & TV broadcasting & wireless communications equipment mfg | 161 524 1998.. | 2 367 654 | 145 197 | S | 16 327 18 681 | 1 X | | |
| | | 185 573 1997.. | 2 634 362 | 166 892 | S | | X | | |
| 334220 | Radio & TV broadcasting & wireless communications equipment mfg | 161 524 1998.. | 2 367 654 | 145 197 | S | 16 327 18 681 | 1 X | | |
| | | 185 573 1997.. | 2 634 362 | 166 892 | S | | X | | |
| 33429 | Other communications equipment mfg | 20 636 1998.. | 237 231 | 16 954 | 226 | 3 682 4 067 | 2 X | | |
| | | 20 938 1997.. | 245 689 | 16 871 | — | | X | | |
| 334290 | Other communications equipment mfg | 20 636 1998.. | 237 231 | 16 954 | 226 | 3 682 4 067 | 2 X | | |
| | | 20 938 1997.. | 245 689 | 16 871 | — | | X | | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|-------------------------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|------|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | C | | E | | |
| A | B | C | D | E | F | G | H | I | |
| 334 | Computer & electronic product mfg—Con. | | | | | | | | |
| 3343 | Audio & video equipment mfg | 1998.. | 41 767 | 693 232 | 35 655 | — | 6 112 | 15 3 | |
| | | 1997.. | 33 637 | 526 197 | 26 983 | — | 6 654 | X X | |
| 33431 | Audio & video equipment mfg | 1998.. | 41 767 | 693 232 | 35 655 | — | 6 112 | 15 3 | |
| | | 1997.. | 33 637 | 526 197 | 26 983 | — | 6 654 | X X | |
| 334310 | Audio & video equipment mfg | 1998.. | 41 767 | 693 232 | 35 655 | — | 6 112 | 15 3 | |
| | | 1997.. | 33 637 | 526 197 | 26 983 | — | 6 654 | X X | |
| 3344 | Semiconductor & other electronic component mfg | 1998.. | 1 260 880 | 18 138 690 | 1 063 877 | — | 197 003 | 1 2 | |
| | | 1997.. | 1 275 472 | 19 187 855 | 1 074 497 | — | 200 975 | X X | |
| 33441 | Semiconductor & other electronic component mfg | 1998.. | 1 260 880 | 18 138 690 | 1 063 877 | — | 197 003 | 1 2 | |
| | | 1997.. | 1 275 472 | 19 187 855 | 1 074 497 | — | 200 975 | X X | |
| 334411 | Electron tube mfg | 1998.. | 69 719 | 1 052 843 | 53 437 | — | 16 282 | 1 1 | |
| | | 1997.. | 71 703 | 1 210 430 | 55 441 | — | 16 262 | X X | |
| 334412 | Bare printed circuit board mfg | 1998.. | 162 993 | 2 131 553 | 140 605 | — | 22 388 | 1 3 | |
| | | 1997.. | 152 307 | 1 921 588 | 129 337 | — | 22 970 | X X | |
| 334413 | Semiconductor & related device mfg | 1998.. | 684 681 | 10 620 014 | 590 648 | — | 94 033 | 1 3 | |
| | | 1997.. | 697 062 | 11 319 854 | 591 819 | — | 105 243 | X X | |
| 334414 | Electronic capacitor mfg | 1998.. | 28 763 | 488 916 | 26 059 | — | 2 704 | 2 5 | |
| | | 1997.. | 31 581 | 536 896 | 27 779 | — | 3 802 | X X | |
| 334415 | Electronic resistor mfg | 1998.. | 15 098 | 235 702 | 13 454 | — | 1 644 | 2 6 | |
| | | 1997.. | 15 854 | 229 397 | 13 978 | — | 1 876 | X X | |
| 334416 | Electronic coil, transformer, & other inductor mfg | 1998.. | 13 580 | 148 996 | 10 423 | — | 3 157 | 3 6 | |
| | | 1997.. | 14 769 | 167 722 | 11 277 | — | 3 492 | X X | |
| 334417 | Electronic connector mfg | 1998.. | 49 602 | 668 016 | 44 155 | — | 5 447 | 2 12 | |
| | | 1997.. | 52 825 | 673 133 | 44 819 | — | 8 006 | X X | |
| 334418 | Printed circuit assembly (electronic assembly) mfg | 1998.. | 143 968 | 1 615 728 | 111 151 | — | 32 817 | 1 8 | |
| | | 1997.. | 150 128 | 2 003 027 | 127 063 | — | 23 065 | X X | |
| 334419 | Other electronic component mfg | 1998.. | 92 475 | 1 176 921 | 73 944 | — | 18 531 | 1 9 | |
| | | 1997.. | 89 243 | 1 125 808 | 72 984 | — | 16 259 | X X | |
| 3345 | Navigational, measuring, medical, & control instruments mfg | 1998.. | 560 996 | 7 572 820 | 488 606 | S | 72 390 | 1 2 | |
| | | 1997.. | 578 259 | 7 677 153 | 492 765 | S | 85 494 | X X | |
| 33451 | Navigational, measuring, medical, & control instruments mfg | 1998.. | 560 996 | 7 572 820 | 488 606 | S | 72 390 | 1 2 | |
| | | 1997.. | 578 259 | 7 677 153 | 492 765 | S | 85 494 | X X | |
| 334510 | Electromedical & electrotherapeutic apparatus mfg | 1998.. | 46 425 | 624 963 | 40 356 | S | 6 069 | 5 1 | |
| | | 1997.. | 45 951 | 652 839 | 40 015 | S | 5 936 | X X | |
| 334511 | Search, detection, navigation, & guidance instrument mfg | 1998.. | 235 508 | 3 395 512 | 215 052 | S | 20 456 | 1 1 | |
| | | 1997.. | 253 911 | 3 583 717 | 221 910 | S | 32 001 | X X | |
| 334512 | Automatic environmental control mfg | 1998.. | 25 101 | 402 370 | 21 925 | — | 3 177 | 5 7 | |
| | | 1997.. | 25 139 | 386 987 | 21 307 | — | 3 832 | X X | |
| 334513 | Industrial process control instrument mfg | 1998.. | 48 250 | 603 644 | 41 275 | — | 6 976 | 2 4 | |
| | | 1997.. | 46 723 | 594 722 | 39 346 | — | 7 377 | X X | |
| 334514 | Totalizing fluid meter & counting device mfg | 1998.. | 24 032 | 357 067 | 18 972 | — | 5 060 | 1 9 | |
| | | 1997.. | 22 913 | 332 457 | 18 134 | — | 4 779 | X X | |
| 334515 | Electricity measuring & testing instrument mfg | 1998.. | 82 194 | 1 000 846 | 69 307 | S | 12 887 | 4 12 | |
| | | 1997.. | 79 855 | 911 059 | 68 692 | S | 11 163 | X X | |
| 334516 | Analytical laboratory instrument mfg | 1998.. | 33 047 | 388 786 | 28 700 | S | 4 347 | 2 10 | |
| | | 1997.. | 34 143 | 385 039 | 28 782 | S | 5 361 | X X | |
| 334517 | Irradiation apparatus mfg | 1998.. | 17 365 | 243 080 | 14 588 | — | 2 778 | 2 3 | |
| | | 1997.. | 19 603 | 277 067 | 16 184 | — | 3 419 | X X | |
| 334518 | Watch, clock, & part mfg | 1998.. | 8 251 | 121 041 | 6 753 | — | 1 498 | 1 1 | |
| | | 1997.. | 7 998 | 112 818 | 6 576 | — | 1 422 | X X | |
| 334519 | Other measuring & controlling device mfg | 1998.. | 40 821 | 435 509 | 31 679 | S | 9 142 | 2 4 | |
| | | 1997.. | 42 023 | 440 448 | 31 819 | S | 10 204 | X X | |
| 3346 | Mfg & reproducing magnetic & optical media | 1998.. | 127 520 | 1 761 285 | 108 485 | — | 19 035 | 1 1 | |
| | | 1997.. | 131 322 | 1 695 626 | 111 427 | — | 19 895 | X X | |
| 33461 | Mfg & reproducing magnetic & optical media | 1998.. | 127 520 | 1 761 285 | 108 485 | — | 19 035 | 1 1 | |
| | | 1997.. | 131 322 | 1 695 626 | 111 427 | — | 19 895 | X X | |
| 334611 | Software reproducing | 1998.. | 15 193 | 186 383 | 11 623 | — | 3 570 | 10 4 | |
| | | 1997.. | 13 514 | 168 685 | 11 167 | — | 2 347 | X X | |
| 334612 | Prerecorded CD (except software), tape, & record reproducing | 1998.. | 54 195 | 733 583 | 46 709 | — | 7 485 | 1 2 | |
| | | 1997.. | 51 780 | 637 045 | 41 282 | — | 10 498 | X X | |
| 334613 | Magnetic & optical recording media mfg | 1998.. | 58 132 | 841 319 | 50 153 | — | 7 979 | 1 1 | |
| | | 1997.. | 66 028 | 889 896 | 58 978 | — | 7 050 | X X | |
| 335 | Electrical equipment, appliance, & component mfg | 1998.. | 1 130 769 | 16 350 757 | 892 539 | S | 238 229 | 1 1 | |
| | | 1997.. | 1 165 526 | 16 456 455 | 901 622 | S | 263 904 | X X | |
| 3351 | Electric lighting equipment mfg | 1998.. | 113 951 | 1 341 625 | 83 464 | — | 30 486 | 1 2 | |
| | | 1997.. | 123 431 | 1 361 958 | 84 911 | D | 38 520 | X X | |
| 33511 | Electric lamp bulb & part mfg | 1998.. | 46 491 | 634 570 | 36 249 | — | 10 242 | 1 1 | |
| | | 1997.. | 55 090 | 665 556 | 38 239 | D | 16 851 | X X | |
| 335110 | Electric lamp bulb & part mfg | 1998.. | 46 491 | 634 570 | 36 249 | D | 10 242 | 1 1 | |
| | | 1997.. | 55 090 | 665 556 | 38 239 | D | 16 851 | X X | |
| 33512 | Lighting fixture mfg | 1998.. | 67 460 | 707 055 | 47 215 | S | 20 244 | 1 4 | |
| | | 1997.. | 68 341 | 696 402 | 46 672 | S | 21 669 | X X | |
| 335121 | Residential electric lighting fixture mfg | 1998.. | 15 754 | 127 955 | 10 135 | S | 5 620 | 3 7 | |
| | | 1997.. | 15 070 | 121 491 | 9 769 | S | 5 301 | X X | |
| 335122 | Commercial/industrial/institutional electric lighting fixture mfg | 1998.. | 28 206 | 309 754 | 19 770 | — | 8 436 | 1 1 | |
| | | 1997.. | 28 827 | 306 805 | 19 553 | — | 9 274 | X X | |
| 335129 | Other lighting equipment mfg | 1998.. | 23 500 | 269 346 | 17 311 | — | 6 189 | 3 9 | |
| | | 1997.. | 24 444 | 268 106 | 17 350 | — | 7 094 | X X | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

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| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|--------------------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|---|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | C | | E | | |
| A | B | C | D | E | F | G | H | I | |
| 335 | Electrical equipment, appliance, & component mfg—Con. | | | | | | | | |
| 3352 | Household appliance mfg | 1998.. 159 853 | 2 586 348 | 119 359 | 11 927 | 40 494 | 2 | 2 | |
| | 1997.. 161 166 | 2 529 256 | 115 428 | 7 150 | 45 738 | X | X | | |
| 33521 | Small electrical appliance mfg | 1998.. 50 476 | 728 766 | 41 875 | — | 8 601 | 5 | 3 | |
| | 1997.. 48 946 | 661 984 | 39 473 | — | 9 473 | X | X | | |
| 335211 | Electric housewares & household fan mfg | 1998.. 34 193 | 438 587 | 28 334 | — | 5 859 | 8 | 5 | |
| | 1997.. 32 170 | 393 094 | 25 820 | — | 6 350 | X | X | | |
| 335212 | Household vacuum cleaner mfg | 1998.. 16 283 | 290 179 | 13 541 | — | 2 742 | 1 | 1 | |
| | 1997.. 16 776 | 268 890 | 13 653 | — | 3 123 | X | X | | |
| 33522 | Major appliance mfg | 1998.. 109 377 | 1 857 582 | 77 484 | 11 927 | 31 893 | 2 | 2 | |
| | 1997.. 112 220 | 1 867 272 | 75 955 | 7 150 | 36 265 | X | X | | |
| 335221 | Household cooking appliance mfg | 1998.. 28 315 | 374 094 | 17 629 | D | 10 686 | 7 | 7 | |
| | 1997.. 28 256 | 362 986 | 16 622 | D | 11 634 | X | X | | |
| 335222 | Household refrigerator & home freezer mfg | 1998.. 33 147 | 674 486 | 27 442 | — | 5 705 | 1 | 1 | |
| | 1997.. 36 069 | 741 966 | 28 853 | — | 7 216 | X | X | | |
| 335224 | Household laundry equipment mfg | 1998.. 27 055 | 460 543 | 17 817 | — | 9 239 | 1 | 1 | |
| | 1997.. 27 023 | 450 704 | 17 007 | — | 10 016 | X | X | | |
| 335228 | Other major household appliance mfg | 1998.. 20 859 | 348 459 | 14 596 | D | 6 263 | 1 | 1 | |
| | 1997.. 20 872 | 311 616 | 13 473 | D | 7 399 | X | X | | |
| 3353 | Electrical equipment mfg | 1998.. 277 464 | 3 769 279 | 217 826 | S | 59 637 | 1 | 2 | |
| | 1997.. 279 938 | 3 788 282 | 217 420 | S | 62 518 | X | X | | |
| 33531 | Electrical equipment mfg | 1998.. 277 464 | 3 769 279 | 217 826 | S | 59 637 | 1 | 2 | |
| | 1997.. 279 938 | 3 788 282 | 217 420 | S | 62 518 | X | X | | |
| 335311 | Power, distribution, & specialty transformer mfg | 1998.. 43 441 | 610 386 | 31 770 | S | 11 671 | 3 | 8 | |
| | 1997.. 43 917 | 589 945 | 31 724 | S | 12 193 | X | X | | |
| 335312 | Motor & generator mfg | 1998.. 106 060 | 1 501 848 | 78 740 | S | 27 319 | 3 | 4 | |
| | 1997.. 112 156 | 1 603 178 | 82 418 | S | 29 738 | X | X | | |
| 335313 | Switchgear & switchboard apparatus mfg | 1998.. 65 808 | 818 808 | 55 302 | — | 10 506 | 1 | 1 | |
| | 1997.. 62 518 | 772 390 | 51 996 | S | 10 522 | X | X | | |
| 335314 | Relay & industrial control mfg | 1998.. 62 155 | 838 237 | 52 014 | S | 10 141 | 2 | 3 | |
| | 1997.. 61 347 | 822 769 | 51 282 | S | 10 065 | X | X | | |
| 3359 | Other electrical equipment & component mfg | 1998.. 579 502 | 8 653 505 | 471 890 | S | 107 612 | 1 | 2 | |
| | 1997.. 600 991 | 8 776 959 | 483 863 | S | 117 128 | X | X | | |
| 33591 | Battery mfg | 1998.. 125 538 | 1 941 338 | 99 914 | D | 25 624 | 1 | 1 | |
| | 1997.. 139 925 | 2 080 589 | 114 606 | D | 25 319 | X | X | | |
| 335911 | Storage battery mfg | 1998.. 104 857 | 1 598 906 | 83 393 | — | 21 463 | 1 | 1 | |
| | 1997.. 123 203 | 1 811 253 | 100 358 | — | 22 845 | X | X | | |
| 335912 | Primary battery mfg | 1998.. 20 681 | 342 432 | 16 521 | S | 4 160 | 1 | 1 | |
| | 1997.. 16 722 | 269 336 | 14 248 | S | 2 474 | X | X | | |
| 33592 | Communication & energy wire & cable mfg | 1998.. 153 278 | 2 371 383 | 128 939 | D | 24 339 | 1 | 8 | |
| | 1997.. 149 471 | 2 323 090 | 125 700 | D | 23 771 | X | X | | |
| 335921 | Fiber optic cable mfg | 1998.. 22 255 | 380 246 | 18 400 | D | 3 856 | 1 | 2 | |
| | 1997.. 19 745 | 342 815 | 16 300 | D | 3 445 | X | X | | |
| 335929 | Other communication & energy wire mfg | 1998.. 131 022 | 1 991 138 | 110 539 | — | 20 483 | 1 | 9 | |
| | 1997.. 129 726 | 1 980 275 | 109 400 | — | 20 326 | X | X | | |
| 33593 | Wiring device mfg | 1998.. 153 570 | 1 921 709 | 131 816 | S | 21 754 | 1 | 2 | |
| | 1997.. 122 587 | 1 655 816 | 101 050 | S | 21 537 | X | X | | |
| 335931 | Current-carrying wiring device mfg | 1998.. 61 570 | 830 163 | 53 317 | S | 8 253 | 1 | 2 | |
| | 1997.. 58 172 | 740 457 | 49 468 | S | 8 704 | X | X | | |
| 335932 | Noncurrent-carrying wiring device mfg | 1998.. 91 999 | 1 091 547 | 78 498 | S | 13 501 | 1 | 3 | |
| | 1997.. 64 415 | 915 359 | 51 582 | S | 12 833 | X | X | | |
| 33599 | All other electrical equipment & component mfg | 1998.. 147 117 | 2 419 075 | 111 221 | S | 35 895 | 1 | 4 | |
| 335991 | Carbon & graphite product mfg | 1998.. 189 008 | 2 717 464 | 142 507 | S | 46 501 | X | X | |
| | 1997.. 95 730 | 1 840 811 | 67 188 | S | 28 541 | 1 | 3 | | |
| 335999 | All other miscellaneous electrical equipment & component mfg | 1998.. 51 387 | 578 263 | 44 033 | — | 38 368 | X | X | |
| | 1997.. 81 473 | 894 814 | 73 340 | — | 7 354 | 4 | 14 | | |
| | | | | | — | 8 133 | X | X | |
| 336 | Transportation equipment mfg | 1998.. 3 606 977 | 51 700 100 | 2 677 351 | S | 929 626 | 1 | 1 | |
| | 1997.. 3 752 036 | 53 052 802 | 2 768 031 | S | 984 005 | X | X | | |
| 3361 | Motor vehicle mfg | 1998.. 673 295 | 10 090 751 | 445 770 | S | 227 524 | 1 | 1 | |
| | 1997.. 708 067 | 9 777 688 | 441 760 | S | 266 307 | X | X | | |
| 33611 | Automobile & light duty motor vehicle mfg | 1998.. 633 304 | 9 518 538 | 416 834 | S | 216 471 | 1 | 1 | |
| | 1997.. 669 340 | 9 278 001 | 415 402 | S | 253 938 | X | X | | |
| 336111 | Automobile mfg | 1998.. 327 469 | 5 279 104 | 220 803 | S | 106 666 | 1 | 1 | |
| | 1997.. 339 357 | 5 198 184 | 219 440 | S | 119 917 | X | X | | |
| 336112 | Light truck & utility vehicle mfg | 1998.. 305 836 | 4 239 434 | 196 031 | S | 109 805 | 1 | 1 | |
| | 1997.. 329 983 | 4 079 817 | 195 962 | S | 134 021 | X | X | | |
| 33612 | Heavy duty truck mfg | 1998.. 39 990 | 572 214 | 28 936 | S | 11 054 | 1 | 1 | |
| | 1997.. 38 727 | 499 687 | 26 358 | S | 12 369 | X | X | | |
| 336120 | Heavy duty truck mfg | 1998.. 39 990 | 572 214 | 28 936 | S | 11 054 | 1 | 1 | |
| | 1997.. 38 727 | 499 687 | 26 358 | S | 12 369 | X | X | | |
| 3362 | Motor vehicle body & trailer mfg | 1998.. 118 322 | 1 359 823 | 78 954 | S | 39 368 | 1 | 4 | |
| | 1997.. 123 516 | 1 390 678 | 84 291 | S | 39 225 | X | X | | |
| 33621 | Motor vehicle body & trailer mfg | 1998.. 118 322 | 1 359 823 | 78 954 | S | 39 368 | 1 | 4 | |
| | 1997.. 123 516 | 1 390 678 | 84 291 | S | 39 225 | X | X | | |
| 336211 | Motor vehicle body mfg | 1998.. 46 990 | 515 092 | 30 815 | S | 16 175 | 2 | 8 | |
| | 1997.. 55 874 | 598 885 | 38 727 | S | 17 147 | X | X | | |
| 336212 | Truck trailer mfg | 1998.. 33 028 | 425 162 | 23 765 | S | 9 262 | 2 | 3 | |
| | 1997.. 29 945 | 382 494 | 21 295 | S | 8 650 | X | X | | |
| 336213 | Motor home mfg | 1998.. 13 009 | 154 974 | 8 700 | S | 4 308 | 1 | 2 | |
| | 1997.. 13 664 | 154 407 | 9 061 | S | 4 603 | X | X | | |
| 336214 | Travel trailer & camper mfg | 1998.. 25 296 | 264 594 | 15 673 | S | 9 622 | 2 | 4 | |
| | 1997.. 24 033 | 254 892 | 15 208 | S | 8 825 | X | X | | |
| 3363 | Motor vehicle parts mfg | 1998.. 1 740 537 | 25 730 482 | 1 331 974 | S | 408 563 | 1 | 1 | |
| | 1997.. 1 865 851 | 26 694 268 | 1 415 792 | S | 450 059 | X | X | | |
| 33631 | Motor vehicle gasoline engine & engine parts mfg | 1998.. 260 200 | 4 155 744 | 208 746 | S | 51 454 | 1 | 1 | |
| | 1997.. 294 340 | 4 122 305 | 223 506 | S | 70 834 | X | X | | |
| 336311 | Carburetor, piston, piston ring, & valve mfg | 1998.. 43 543 | 758 210 | 35 287 | S | 8 256 | 1 | 2 | |
| | 1997.. 43 016 | 692 644 | 33 187 | S | 9 829 | X | X | | |
| 336312 | Gasoline engine & engine parts mfg | 1998.. 216 657 | 3 397 534 | 173 459 | S | 43 198 | 1 | 1 | |
| | 1997.. 251 324 | 3 429 661 | 190 319 | S | 61 005 | X | X | | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|-------------------------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|----|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | C | | E | | |
| A | B | C | D | E | F | G | H | I | |
| 336 | Transportation equipment mfg—Con. | | | | | | | | |
| 3363 | Motor vehicle parts mfg—Con. | | | | | | | | |
| 33632 | Motor vehicle electrical & electronic equipment mfg | 1998.. | 148 972 | 2 232 211 | 120 854 | S | 28 117 | 1 | |
| | | 1997.. | 158 556 | 2 290 670 | 127 971 | SS | 30 585 | X | |
| 336321 | Vehicular lighting equipment mfg | 1998.. | 31 985 | 548 024 | 26 774 | S | 5 212 | 1 | |
| | | 1997.. | 34 295 | 570 780 | 27 794 | SS | 6 501 | X | |
| 336322 | Other motor vehicle electrical & electronic equipment mfg | 1998.. | 116 986 | 1 684 187 | 94 081 | S | 22 906 | 1 | |
| | | 1997.. | 124 261 | 1 719 890 | 100 177 | SS | 24 084 | X | |
| 33633 | Motor vehicle steering & suspension component (except spring) mfg | 1998.. | 117 644 | 1 939 720 | 89 420 | S | 28 224 | 1 | |
| | | 1997.. | 124 756 | 1 981 742 | 93 713 | SS | 31 043 | X | |
| 336330 | Motor vehicle steering & suspension component (except spring) mfg | 1998.. | 117 644 | 1 939 720 | 89 420 | S | 28 224 | 1 | |
| | | 1997.. | 124 756 | 1 981 742 | 93 713 | SS | 31 043 | X | |
| 33634 | Motor vehicle brake system mfg | 1998.. | 97 012 | 1 557 332 | 77 422 | SS | 19 590 | 1 | |
| | | 1997.. | 94 439 | 1 485 989 | 74 406 | SS | 20 033 | X | |
| 336340 | Motor vehicle brake system mfg | 1998.. | 97 012 | 1 557 332 | 77 422 | SS | 19 590 | 1 | |
| | | 1997.. | 94 439 | 1 485 989 | 74 406 | SS | 20 033 | X | |
| 33635 | Motor vehicle transmission & power train parts mfg | 1998.. | 316 923 | 4 923 400 | 240 732 | S | 76 191 | 1 | |
| | | 1997.. | 318 903 | 4 757 585 | 238 574 | SS | 80 329 | X | |
| 336350 | Motor vehicle transmission & power train parts mfg | 1998.. | 316 923 | 4 923 400 | 240 732 | S | 76 191 | 1 | |
| | | 1997.. | 318 903 | 4 757 585 | 238 574 | SS | 80 329 | X | |
| 33636 | Motor vehicle seating & interior trim mfg | 1998.. | 60 014 | 837 642 | 46 524 | SS | 13 490 | 2 | |
| | | 1997.. | 59 177 | 824 446 | 44 395 | SS | 14 782 | X | |
| 336360 | Motor vehicle seating & interior trim mfg | 1998.. | 60 014 | 837 642 | 46 524 | SS | 13 490 | 2 | |
| | | 1997.. | 59 177 | 824 446 | 44 395 | SS | 14 782 | X | |
| 33637 | Motor vehicle metal stamping | 1998.. | 293 612 | 3 964 199 | 224 491 | SS | 69 121 | 1 | |
| | | 1997.. | 341 401 | 4 789 432 | 271 294 | SS | 70 107 | X | |
| 336370 | Motor vehicle metal stamping | 1998.. | 293 612 | 3 964 199 | 224 491 | SS | 69 121 | 1 | |
| | | 1997.. | 341 401 | 4 789 432 | 271 294 | SS | 70 107 | X | |
| 33639 | Other motor vehicle parts mfg | 1998.. | 446 160 | 6 120 235 | 323 784 | SS | 122 376 | 1 | |
| | | 1997.. | 474 279 | 6 442 099 | 341 933 | SS | 132 346 | X | |
| 336391 | Motor vehicle air-conditioning mfg | 1998.. | 51 854 | 792 811 | 41 816 | SS | 10 039 | 1 | |
| | | 1997.. | 56 636 | 1 043 198 | 44 019 | SS | 12 617 | X | |
| 336399 | All other motor vehicle parts mfg | 1998.. | 394 306 | 5 327 424 | 281 968 | SS | 112 337 | 2 | |
| | | 1997.. | 417 643 | 5 398 901 | 297 914 | SS | 119 729 | X | |
| 3364 | Aerospace product & parts mfg | 1998.. | 814 269 | 11 167 217 | 633 496 | S | 180 772 | 1 | |
| | | 1997.. | 783 694 | 11 763 544 | 634 759 | SS | 148 935 | X | |
| 33641 | Aerospace product & parts mfg | 1998.. | 814 269 | 11 167 217 | 633 496 | SS | 180 772 | 1 | |
| | | 1997.. | 783 694 | 11 763 544 | 634 759 | SS | 148 935 | X | |
| 336411 | Aircraft mfg | 1998.. | 253 734 | 3 323 175 | 176 679 | SS | 77 055 | 1 | |
| | | 1997.. | 218 194 | 3 913 571 | 177 559 | SS | 40 635 | X | |
| 336412 | Aircraft engine & engine parts mfg | 1998.. | 179 156 | 2 350 381 | 145 482 | SS | 33 673 | 3 | |
| | | 1997.. | 199 089 | 2 453 553 | 155 897 | SS | 43 192 | X | |
| 336413 | Other aircraft part & auxiliary equipment mfg | 1998.. | 259 067 | 3 645 632 | 208 889 | SS | 50 178 | 1 | |
| | | 1997.. | 240 165 | 3 519 285 | 195 311 | SS | 44 854 | X | |
| 336414 | Guided missile & space vehicle mfg | 1998.. | 68 116 | 1 070 615 | 59 681 | SS | 8 435 | 1 | |
| | | 1997.. | 70 095 | 1 070 297 | 61 172 | SS | 8 923 | X | |
| 336415 | Guided missile & space vehicle propulsion unit & parts mfg | 1998.. | 36 269 | 538 420 | 28 954 | SS | 7 315 | 1 | |
| | | 1997.. | 40 854 | 588 957 | 32 539 | SS | 8 315 | X | |
| 336419 | Other guided missile & space vehicle parts & auxiliary equip mfg | 1998.. | 17 928 | 238 993 | 13 811 | SS | 4 116 | 1 | |
| | | 1997.. | 15 297 | 217 881 | 12 281 | SS | 3 016 | X | |
| 3365 | Railroad rolling stock mfg | 1998.. | 57 857 | 594 531 | 34 521 | SS | 23 336 | 1 | |
| | | 1997.. | 59 042 | 574 038 | 35 414 | SS | 23 628 | X | |
| 33651 | Railroad rolling stock mfg | 1998.. | 57 857 | 594 531 | 34 521 | SS | 23 336 | 1 | |
| | | 1997.. | 59 042 | 574 038 | 35 414 | SS | 23 628 | X | |
| 336510 | Railroad rolling stock mfg | 1998.. | 57 857 | 594 531 | 34 521 | SS | 23 336 | 1 | |
| | | 1997.. | 59 042 | 574 038 | 35 414 | SS | 23 628 | X | |
| 3366 | Ship & boat building | 1998.. | 142 890 | 2 041 155 | 111 472 | SS | 31 418 | 1 | |
| | | 1997.. | 151 926 | 2 105 730 | 115 072 | SS | 36 854 | X | |
| 33661 | Ship & boat building | 1998.. | 142 890 | 2 041 155 | 111 472 | SS | 31 418 | 1 | |
| | | 1997.. | 151 926 | 2 105 730 | 115 072 | SS | 36 854 | X | |
| 336611 | Ship building & repairing | 1998.. | 106 894 | 1 661 732 | 88 083 | SS | 18 811 | 1 | |
| | | 1997.. | 116 510 | 1 731 770 | 92 670 | SS | 23 840 | X | |
| 336612 | Boat building | 1998.. | 35 996 | 379 423 | 23 389 | D | 12 607 | 1 | |
| | | 1997.. | 35 416 | 373 960 | 22 402 | D | 13 014 | X | |
| 3369 | Other transportation equipment mfg | 1998.. | 59 807 | 716 141 | 41 163 | SS | 18 644 | 1 | |
| | | 1997.. | 59 940 | 746 856 | 40 943 | SS | 18 997 | X | |
| 33699 | Other transportation equipment mfg | 1998.. | 59 807 | 716 141 | 41 163 | SS | 18 644 | 1 | |
| | | 1997.. | 59 940 | 746 856 | 40 943 | SS | 18 997 | X | |
| 336991 | Motorcycle, bicycle, & parts mfg | 1998.. | 23 310 | 216 367 | 14 924 | SS | 8 386 | 2 | |
| | | 1997.. | 25 249 | 285 151 | 16 640 | SS | 8 609 | X | |
| 336992 | Military armored vehicle, tank, & tank component mfg | 1998.. | 11 865 | 180 988 | 10 216 | — | 1 649 | 1 | |
| | | 1997.. | 12 199 | 183 305 | 10 226 | — | 1 973 | X | |
| 336999 | All other transportation equipment mfg | 1998.. | 24 632 | 318 786 | 16 023 | — | 8 609 | 1 | |
| | | 1997.. | 22 492 | 278 400 | 14 077 | — | 8 415 | X | |
| 337 | Furniture & related product mfg | 1998.. | 696 926 | 9 026 909 | 530 928 | 16 194 | 165 998 | 2 | |
| | | 1997.. | 686 244 | 8 767 786 | 509 480 | 16 152 | 176 764 | X | |
| 3371 | Household & institutional furniture & kitchen cabinet mfg | 1998.. | 425 208 | 5 647 448 | 339 462 | 6 709 | 85 746 | 4 | |
| | | 1997.. | 403 307 | 5 284 720 | 312 076 | 5 195 | 91 231 | X | |
| 33711 | Wood kitchen cabinet & counter top mfg | 1998.. | 113 005 | 1 382 131 | 87 919 | 1 591 | 25 086 | 11 | |
| | | 1997.. | 94 870 | 1 117 620 | 69 670 | 1 077 | 25 200 | X | |
| 337110 | Wood kitchen cabinet & counter top mfg | 1998.. | 113 005 | 1 382 131 | 87 919 | 1 591 | 25 086 | 11 | |
| | | 1997.. | 94 870 | 1 117 620 | 69 670 | 1 077 | 25 200 | X | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|----------------------------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|--|--|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | | | | | |
| A | B | C | D | E | C | E | | | |
| 337 | Furniture & related product mfg—Con. | | | | | | | | |
| 3371 | Household & institutional furniture & kitchen cabinet mfg—Con. | | | | | | | | |
| 33712 | Household & institutional furniture mfg | 1998.. 312 202 | 4 265 317 | 251 542 | 5 118 | 60 660 | 3 1 | | |
| | | 1997.. 308 437 | 4 167 100 | 242 406 | 4 118 | 66 031 | X X | | |
| 337121 | Upholstered household furniture mfg | 1998.. 58 701 | 793 870 | 49 574 | D | 9 127 | 12 2 | | |
| | | 1997.. 50 226 | 658 479 | 39 960 | D | 10 266 | X X | | |
| 337122 | Nonupholstered wood household furniture mfg | 1998.. 162 209 | 2 457 173 | 135 923 | D | 26 286 | 3 2 | | |
| | | 1997.. 166 834 | 2 516 632 | 139 155 | D | 27 679 | X X | | |
| 337124 | Metal household furniture mfg | 1998.. 26 839 | 280 301 | 17 265 | — | 9 574 | 8 4 | | |
| | | 1997.. 23 492 | 227 658 | 14 578 | — | 8 914 | X X | | |
| 337125 | Household furniture (except wood & metal) mfg | 1998.. 9 242 | 136 937 | 8 203 | D | 1 040 | 4 3 | | |
| | | 1997.. 10 413 | 163 177 | 9 356 | D | 1 057 | X X | | |
| 337127 | Institutional furniture mfg | 1998.. 49 482 | 534 957 | 35 970 | — | 13 512 | 3 3 | | |
| | | 1997.. 52 116 | 536 719 | 35 042 | — | 17 074 | X X | | |
| 337129 | Wood television, radio, & sewing machine cabinet mfg | 1998.. 5 729 | 62 080 | 4 608 | — | 1 122 | 2 14 | | |
| | | 1997.. 5 356 | 64 435 | 4 315 | — | 1 041 | X X | | |
| 3372 | Office furniture (including fixtures) mfg | 1998.. 240 639 | 3 024 757 | 168 368 | 9 485 | 72 271 | 1 4 | | |
| | | 1997.. 250 752 | 3 118 302 | 173 188 | 10 957 | 77 564 | X X | | |
| 33721 | Office furniture (including fixtures) mfg | 1998.. 240 639 | 3 024 757 | 168 368 | 9 485 | 72 271 | 1 4 | | |
| | | 1997.. 250 752 | 3 118 302 | 173 188 | 10 957 | 77 564 | X X | | |
| 337211 | Wood office furniture mfg | 1998.. 37 645 | 453 074 | 28 367 | — | 9 279 | 1 7 | | |
| | | 1997.. 42 209 | 501 058 | 31 932 | — | 10 277 | X X | | |
| 337212 | Custom architectural woodwork & millwork mfg | 1998.. 23 246 | 503 790 | 16 356 | D | 6 890 | 3 6 | | |
| | | 1997.. 21 598 | 480 468 | 14 835 | D | 6 763 | X X | | |
| 337214 | Office furniture (except wood) mfg | 1998.. 68 078 | 847 019 | 49 111 | D | 18 967 | 1 3 | | |
| | | 1997.. 73 577 | 910 727 | 52 365 | D | 21 212 | X X | | |
| 337215 | Showcase, partition, shelving, & locker mfg | 1998.. 111 669 | 1 220 874 | 74 533 | D | 37 135 | 2 8 | | |
| | | 1997.. 113 368 | 1 226 049 | 74 056 | D | 39 312 | X X | | |
| 3379 | Other furniture related product mfg | 1998.. 31 079 | 354 704 | 23 098 | — | 7 981 | 10 2 | | |
| | | 1997.. 32 185 | 364 764 | 24 216 | — | 7 969 | X X | | |
| 33791 | Mattress mfg | 1998.. 15 010 | 157 198 | 10 616 | — | 4 394 | 23 2 | | |
| | | 1997.. 17 347 | 189 374 | 12 662 | — | 4 685 | X X | | |
| 337910 | Mattress mfg | 1998.. 15 010 | 157 198 | 10 616 | — | 4 394 | 23 2 | | |
| | | 1997.. 17 347 | 189 274 | 12 662 | — | 4 685 | X X | | |
| 33792 | Blind & shade mfg | 1998.. 16 069 | 197 506 | 12 482 | — | 3 587 | 2 3 | | |
| | | 1997.. 14 838 | 175 390 | 11 554 | — | 3 284 | X X | | |
| 337920 | Blind & shade mfg | 1998.. 16 069 | 197 506 | 12 482 | — | 3 587 | 2 3 | | |
| | | 1997.. 14 838 | 175 390 | 11 554 | — | 3 284 | X X | | |
| 339 | Miscellaneous mfg | 1998.. 869 096 | 10 786 066 | 684 589 | S | 184 507 | 1 3 | | |
| | | 1997.. 848 112 | 10 549 694 | 656 251 | S | 191 861 | X X | | |
| 3391 | Medical equipment & supplies mfg | 1998.. 324 237 | 4 113 879 | 271 731 | S | 52 506 | 1 2 | | |
| | | 1997.. 309 913 | 4 016 471 | 260 269 | S | 49 644 | X X | | |
| 33911 | Medical equipment & supplies mfg | 1998.. 324 237 | 4 113 879 | 271 731 | S | 52 506 | 1 2 | | |
| | | 1997.. 309 913 | 4 016 471 | 260 269 | S | 49 644 | X X | | |
| 339111 | Laboratory apparatus & furniture mfg | 1998.. 18 385 | 214 403 | 14 360 | — | 4 025 | 3 12 | | |
| | | 1997.. 20 890 | 239 832 | 15 332 | — | 5 558 | X X | | |
| 339112 | Surgical & medical instrument mfg | 1998.. 130 710 | 1 650 561 | 108 463 | S | 22 248 | 3 1 | | |
| | | 1997.. 125 622 | 1 688 262 | 107 507 | S | 18 115 | X X | | |
| 339113 | Surgical appliance & supplies mfg | 1998.. 102 027 | 1 311 595 | 85 922 | S | 16 104 | 1 1 | | |
| | | 1997.. 92 800 | 1 182 588 | 76 374 | S | 16 426 | X X | | |
| 339114 | Dental equipment & supplies mfg | 1998.. 15 766 | 189 378 | 13 142 | — | 2 623 | 4 2 | | |
| | | 1997.. 16 238 | 194 329 | 13 625 | S | 2 613 | X X | | |
| 339115 | Ophthalmic goods mfg | 1998.. 33 591 | 445 878 | 29 599 | — | 3 993 | 1 2 | | |
| | | 1997.. 34 476 | 446 658 | 30 127 | — | 4 349 | X X | | |
| 339116 | Dental laboratories | 1998.. 23 759 | S | S | — | S | 4 24 | | |
| | | 1997.. 19 887 | S | S | — | S | X X | | |
| 3399 | Other miscellaneous mfg | 1998.. 544 858 | 6 672 187 | 412 858 | — | 132 001 | 1 4 | | |
| | | 1997.. 538 199 | 6 533 223 | 395 982 | — | 142 217 | X X | | |
| 33991 | Jewelry & silverware mfg | 1998.. 44 899 | 418 529 | 32 351 | — | 12 548 | 7 4 | | |
| | | 1997.. 45 467 | 390 598 | 31 023 | — | 14 444 | X X | | |
| 339911 | Jewelry (except costume) mfg | 1998.. 23 214 | 224 103 | 16 962 | — | 6 252 | 13 5 | | |
| | | 1997.. 21 846 | 187 336 | 14 958 | — | 6 888 | X X | | |
| 339912 | Silverware & plated ware mfg | 1998.. 6 490 | 86 516 | 4 459 | — | 2 032 | 1 12 | | |
| | | 1997.. 6 663 | 90 710 | 4 706 | — | 1 957 | X X | | |
| 339913 | Jewelers' material & lapidary work mfg | 1998.. 4 921 | 41 812 | 3 705 | — | 1 216 | 12 5 | | |
| | | 1997.. 4 855 | 35 529 | 3 304 | — | 1 551 | X X | | |
| 339914 | Costume jewelry & novelty mfg | 1998.. 10 273 | 66 097 | 7 225 | — | 3 048 | 5 9 | | |
| | | 1997.. 12 103 | 77 023 | 8 055 | — | 4 048 | X X | | |
| 33992 | Sporting & athletic goods mfg | 1998.. 84 993 | 1 005 070 | 60 997 | — | 23 996 | 2 4 | | |
| | | 1997.. 93 799 | 1 075 875 | 64 809 | — | 28 990 | X X | | |
| 339920 | Sporting & athletic goods mfg | 1998.. 84 993 | 1 005 070 | 60 997 | — | 23 996 | 2 4 | | |
| | | 1997.. 93 799 | 1 075 875 | 64 809 | — | 28 990 | X X | | |
| 33993 | Doll, toy, & game mfg | 1998.. 52 094 | 621 787 | 41 852 | — | 10 242 | 3 2 | | |
| | | 1997.. 51 856 | 632 141 | 38 459 | — | 13 397 | X X | | |
| 339931 | Doll & stuffed toy mfg | 1998.. 2 464 | 19 948 | 1 509 | — | 955 | 4 7 | | |
| | | 1997.. 1 963 | 15 998 | 1 248 | — | 715 | X X | | |
| 339932 | Game, toy, & children's vehicle mfg | 1998.. 49 630 | 601 839 | 40 343 | — | 9 287 | 3 2 | | |
| | | 1997.. 49 893 | 616 143 | 37 211 | — | 12 682 | X X | | |
| 33994 | Office supplies (except paper) mfg | 1998.. 46 242 | 559 983 | 36 807 | — | 9 435 | 3 12 | | |
| | | 1997.. 38 666 | 490 589 | 30 070 | — | 8 596 | X X | | |
| 339941 | Pen & mechanical pencil mfg | 1998.. 17 580 | 237 406 | 15 307 | — | 2 273 | 4 9 | | |
| | | 1997.. 11 781 | 180 260 | 10 545 | — | 1 236 | X X | | |
| 339942 | Lead pencil & art good mfg | 1998.. 13 616 | 140 963 | 9 876 | — | 3 741 | 1 1 | | |
| | | 1997.. 11 479 | 139 523 | 8 997 | — | 2 482 | X X | | |
| 339943 | Marking device mfg | 1998.. 5 943 | 72 381 | 4 900 | — | 1 043 | 2 47 | | |
| | | 1997.. 6 251 | 70 700 | 4 787 | — | 1 464 | X X | | |
| 339944 | Carbon paper & inked ribbon mfg | 1998.. 9 103 | 109 233 | 6 724 | — | 2 380 | 16 41 | | |
| | | 1997.. 9 155 | 100 106 | 5 741 | — | 3 414 | X X | | |

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Cost of purchased fuels and electric energy (\$1,000) | Electric energy | | | Cost of purchased fuels (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | | |
|------------|---------------------------------------------|-------------------------------------------------------|----------------------|----------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|---|----|
| | | | Purchased | | Generated less sold (1,000 kWh) | | | | |
| | | | Quantity (1,000 kWh) | Cost (\$1,000) | | | | | |
| A | B | C | D | E | C | E | | | |
| 339 | Miscellaneous mfg—Con. | | | | | | | | |
| 3399 | Other miscellaneous mfg—Con. | | | | | | | | |
| 33995 | Sign mfg | 1998.. | 76 079 | 1 116 152 | 57 624 | — | 18 455 | 6 | 27 |
| | | 1997.. | 81 703 | 1 109 096 | 58 224 | — | 23 479 | X | X |
| 339950 | Sign mfg | 1998.. | 76 079 | 1 116 152 | 57 624 | — | 18 455 | 6 | 27 |
| | | 1997.. | 81 703 | 1 109 096 | 58 224 | — | 23 479 | X | X |
| 33999 | All other miscellaneous mfg | 1998.. | 240 552 | 2 950 666 | 183 227 | — | 57 325 | 1 | 3 |
| | | 1997.. | 226 708 | 2 834 924 | 173 397 | — | 53 311 | X | X |
| 339991 | Gasket, packing, & sealing device mfg | 1998.. | 92 313 | 1 183 897 | 73 699 | — | 18 614 | 2 | 6 |
| | | 1997.. | 85 059 | 1 158 997 | 69 146 | — | 15 913 | X | X |
| 339992 | Musical instrument mfg | 1998.. | 14 991 | 145 225 | 10 994 | — | 3 997 | 6 | 24 |
| | | 1997.. | 13 035 | 129 947 | 9 409 | — | 3 626 | X | X |
| 339993 | Fastener, button, needle, & pin mfg | 1998.. | 17 237 | 264 363 | 13 802 | — | 3 434 | 1 | 2 |
| | | 1997.. | 17 870 | 270 152 | 14 152 | — | 3 718 | X | X |
| 339994 | Broom, brush, & mop mfg | 1998.. | 20 093 | 301 205 | 16 506 | — | 3 587 | 7 | 8 |
| | | 1997.. | 21 192 | 283 145 | 17 066 | — | 4 126 | X | X |
| 339995 | Burial casket mfg | 1998.. | 12 852 | 156 723 | 8 301 | — | 4 551 | 1 | 1 |
| | | 1997.. | 12 333 | 158 792 | 8 194 | — | 4 139 | X | X |
| 339999 | All other miscellaneous mfg | 1998.. | 83 066 | 899 253 | 59 925 | — | 23 142 | 1 | 1 |
| | | 1997.. | 77 219 | 833 891 | 55 430 | — | 21 789 | X | X |

¹Description of relative standard error of estimate is given in Appendix B. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note: 1997 data may differ from that published in the 1997 Census of Manufactures final industry series because of changes encountered in subsequent 1997 census review or revisions discovered during 1998 Annual Survey of Manufactures review.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 31-33 | Manufacturing | 151 904 983 | 23 692 077 | 128 212 906 | 1 |
| | 1998.. | 151 734 631 | 23 347 469 | 128 387 162 | X |
| 311 | Food mfg | 11 373 153 | 2 259 593 | 9 113 560 | 1 |
| | 1997.. | 10 797 753 | 2 152 858 | 8 644 895 | X |
| 3111 | Animal food mfg | 573 070 | 118 362 | 454 708 | 8 |
| | 1997.. | 552 180 | 122 559 | 429 621 | X |
| 31111 | Animal food mfg | 573 070 | 118 362 | 454 708 | 8 |
| | 1997.. | 552 180 | 122 559 | 429 621 | X |
| 311111 | Dog & cat food mfg | 210 727 | 26 517 | 184 211 | 5 |
| | 1997.. | 261 722 | 45 978 | 215 744 | X |
| 311119 | Other animal food mfg | 362 343 | 91 846 | 270 498 | 13 |
| | 1997.. | 290 458 | 76 581 | 213 877 | X |
| 3112 | Grain & oilseed milling | 1 777 595 | 328 313 | 1 449 282 | 1 |
| | 1997.. | 1 517 801 | 261 708 | 1 256 093 | X |
| 31121 | Flour milling & malt mfg | 259 396 | 62 676 | 196 719 | 5 |
| | 1997.. | 286 597 | 77 002 | 209 595 | X |
| 311211 | Flour milling | 182 759 | 43 725 | 139 034 | 4 |
| | 1997.. | 198 684 | 58 838 | 139 846 | X |
| 311212 | Rice milling | 24 646 | 2 852 | 21 793 | 16 |
| | 1997.. | 45 981 | 6 606 | 39 375 | X |
| 311213 | Malt mfg | 51 991 | 16 099 | 35 893 | 21 |
| | 1997.. | 41 932 | 11 558 | 30 374 | X |
| 31122 | Starch & vegetable fats & oils mfg | 1 156 279 | 216 902 | 939 377 | 2 |
| | 1997.. | 981 833 | 157 109 | 824 724 | X |
| 311221 | Wet corn milling | 424 512 | 66 484 | 358 028 | 1 |
| | 1997.. | 540 906 | 71 613 | 469 293 | X |
| 311222 | Soybean processing | 285 073 | 37 289 | 247 785 | 3 |
| | 1997.. | 188 422 | 45 212 | 143 210 | X |
| 311223 | Other oilseed processing | 98 876 | 29 052 | 69 825 | 10 |
| | 1997.. | 83 999 | 12 731 | 71 268 | X |
| 311225 | Fats & oils refining & blending | 347 818 | 84 078 | 263 740 | 5 |
| | 1997.. | 168 506 | 27 553 | 140 953 | X |
| 31123 | Breakfast cereal mfg | 361 920 | 48 735 | 313 185 | 2 |
| | 1997.. | 249 371 | 27 597 | 221 774 | X |
| 311230 | Breakfast cereal mfg | 361 920 | 48 735 | 313 185 | 2 |
| | 1997.. | 249 371 | 27 597 | 221 774 | X |
| 3113 | Sugar & confectionery product mfg | 911 414 | 117 595 | 793 818 | 6 |
| | 1997.. | 832 514 | 146 690 | 685 824 | X |
| 31131 | Sugar mfg | 316 640 | 33 550 | 283 090 | 16 |
| | 1997.. | 280 354 | 41 539 | 238 815 | X |
| 311311 | Sugarcane mills | 60 812 | 6 838 | 53 974 | 28 |
| | 1997.. | 68 315 | 10 587 | 57 728 | X |
| 311312 | Cane sugar refining | 32 682 | 3 033 | 29 649 | 1 |
| | 1997.. | 44 528 | 4 398 | 40 130 | X |
| 311313 | Beet sugar mfg | 223 147 | 23 679 | 199 468 | 22 |
| | 1997.. | 167 511 | 26 554 | 140 957 | X |
| 31132 | Chocolate & confectionery mfg from cacao beans | 116 988 | 17 147 | 99 841 | 8 |
| | 1997.. | 69 718 | 10 663 | 59 055 | X |
| 311320 | Chocolate & confectionery mfg from cacao beans | 116 988 | 17 147 | 99 841 | 8 |
| | 1997.. | 69 718 | 10 663 | 59 055 | X |
| 31133 | Confectionery mfg from purchased chocolate | 277 037 | 37 177 | 239 860 | 3 |
| | 1997.. | 272 269 | 56 574 | 215 695 | X |
| 311330 | Confectionery mfg from purchased chocolate .. | 277 037 | 37 177 | 239 860 | 3 |
| | 1997.. | 272 269 | 56 574 | 215 695 | X |
| 31134 | Nonchocolate confectionery mfg | 200 748 | 29 721 | 171 027 | 6 |
| | 1997.. | 210 173 | 37 914 | 172 259 | X |
| 311340 | Nonchocolate confectionery mfg | 200 748 | 29 721 | 171 027 | 6 |
| | 1997.. | 210 173 | 37 914 | 172 259 | X |
| 3114 | Fruit & vegetable preserving & specialty food mfg... | 1 601 480 | 274 492 | 1 326 988 | 3 |
| | 1997.. | 1 660 374 | 305 223 | 1 355 151 | X |
| 31141 | Frozen food mfg | 768 812 | 160 411 | 608 401 | 2 |
| | 1997.. | 758 764 | 139 797 | 618 967 | X |
| 311411 | Frozen fruit, juice, & vegetable mfg | 448 387 | 113 881 | 334 506 | 4 |
| | 1997.. | 403 492 | 59 796 | 343 696 | X |
| 311412 | Frozen specialty food mfg | 320 425 | 46 530 | 273 895 | 2 |
| | 1997.. | 355 272 | 80 001 | 275 271 | X |
| 31142 | Fruit & vegetable canning, pickling, & drying .. | 832 668 | 114 081 | 718 587 | 6 |
| | 1997.. | 901 610 | 165 426 | 736 184 | X |
| 311421 | Fruit & vegetable canning | 455 886 | 61 509 | 394 377 | 4 |
| | 1997.. | 534 195 | 86 348 | 447 847 | X |
| 311422 | Specialty canning | 224 811 | 26 576 | 198 235 | 14 |
| | 1997.. | 219 818 | 48 566 | 171 252 | X |
| 311423 | Dried & dehydrated food mfg | 151 971 | 25 996 | 125 975 | 21 |
| | 1997.. | 147 597 | 30 512 | 117 085 | X |
| 3115 | Dairy product mfg | 1 489 051 | 340 205 | 1 148 846 | 3 |
| | 1997.. | 1 351 987 | 302 325 | 1 049 662 | X |
| 31151 | Dairy product (except frozen) mfg | 1 257 295 | 294 627 | 962 668 | 3 |
| | 1997.. | 1 192 610 | 267 111 | 925 499 | X |
| 311511 | Fluid milk mfg | 469 525 | 131 100 | 338 426 | 7 |
| | 1997.. | 428 346 | 100 145 | 328 201 | X |
| 311512 | Creamery butter mfg | 10 453 | 1 436 | 9 018 | 40 |
| | 1997.. | 8 522 | 637 | 7 885 | X |
| 311513 | Cheese mfg | 421 126 | 86 536 | 334 591 | 3 |
| | 1997.. | 485 890 | 91 437 | 394 453 | X |
| 311514 | Dry, condensed, & evaporated dairy product mfg | 356 190 | 75 556 | 280 633 | 7 |
| | 1997.. | 269 852 | 74 892 | 194 960 | X |
| 31152 | Ice cream & frozen dessert mfg | 231 757 | 45 578 | 186 179 | 12 |
| | 1997.. | 159 377 | 35 214 | 124 163 | X |
| 311520 | Ice cream & frozen dessert mfg | 231 757 | 45 578 | 186 179 | 12 |
| | 1997.. | 159 377 | 35 214 | 124 163 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|--------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 311 | Food mfg—Con. | | | | |
| 3116 | Meat product mfg | 1 687 112 | 383 111 | 1 304 000 | 2 |
| 1998.. | | 1 802 274 | 418 859 | 1 383 415 | X |
| 1997.. | | 1 687 112 | 383 111 | 1 304 000 | 2 |
| 31161 | Animal slaughtering & processing | 1 802 274 | 418 859 | 1 383 415 | X |
| 1998.. | | 1 802 274 | 418 859 | 1 383 415 | X |
| 1997.. | Animal (except poultry) slaughtering | 436 887 | 96 962 | 339 924 | 2 |
| 311611 | | 536 605 | 124 443 | 412 162 | X |
| 1998.. | | 487 295 | 118 107 | 369 187 | 4 |
| 1997.. | Meat processed from carcasses | 527 238 | 145 145 | 382 093 | X |
| 311612 | Rendering & meat byproduct processing | 106 389 | 25 621 | 80 768 | 12 |
| 1998.. | | 114 353 | 13 328 | 101 025 | X |
| 1997.. | Poultry processing | 656 541 | 142 420 | 514 120 | 1 |
| 311615 | | 624 078 | 135 943 | 488 135 | X |
| 3117 | Seafood product preparation & packaging | 139 861 | 21 179 | 118 682 | 12 |
| 1998.. | | 177 424 | 29 777 | 147 647 | X |
| 1997.. | Seafood product preparation & packaging | 139 861 | 21 179 | 118 682 | 12 |
| 31171 | Seafood canning | 177 424 | 29 777 | 147 647 | X |
| 1998.. | | 14 958 | 1 925 | 13 032 | 9 |
| 1997.. | | 21 599 | 4 380 | 17 219 | X |
| 311712 | Fresh & frozen seafood processing | 124 903 | 19 253 | 105 650 | 13 |
| 1998.. | | 155 825 | 25 397 | 130 428 | X |
| 3118 | Bakeries & tortilla mfg | 1 560 445 | 300 338 | 1 260 107 | 5 |
| 1998.. | | 1 442 923 | 289 334 | 1 153 589 | X |
| 1997.. | Bread & bakery product mfg | 976 075 | 199 316 | 776 759 | 6 |
| 31181 | | 889 654 | 203 838 | 685 816 | X |
| 1998.. | Retail bakeries | 81 411 | 17 135 | 64 276 | 6 |
| 1997.. | | 75 864 | 15 374 | 60 490 | X |
| 311811 | Commercial bakeries | 793 070 | 173 403 | 619 667 | 7 |
| 1998.. | | 725 028 | 166 332 | 558 696 | X |
| 1997.. | Frozen cakes, pies, & other pastries mfg | 101 595 | 8 778 | 92 817 | 9 |
| 311813 | | 88 762 | 22 132 | 66 630 | X |
| 1998.. | Cookie, cracker, & pasta mfg | 543 413 | 93 526 | 449 887 | 8 |
| 1997.. | | 503 891 | 77 224 | 426 667 | X |
| 311821 | Cookie & cracker mfg | 343 695 | 38 307 | 305 388 | 12 |
| 1998.. | | 301 805 | 28 782 | 273 023 | X |
| 311822 | Flour mixes & dough mfg from purchased flour | 170 226 | 52 880 | 117 346 | 2 |
| 1998.. | | 159 035 | 43 862 | 115 173 | X |
| 1997.. | Dry pasta mfg | 29 493 | 2 340 | 27 153 | 1 |
| 311823 | | 43 051 | 4 580 | 38 471 | X |
| 1998.. | Tortilla mfg | 40 956 | 7 496 | 33 460 | 18 |
| 1997.. | | 49 378 | 8 272 | 41 106 | X |
| 311830 | Tortilla mfg | 40 956 | 7 496 | 33 460 | 18 |
| 1997.. | | 49 378 | 8 272 | 41 106 | X |
| 3119 | Other food mfg | 1 633 124 | 375 996 | 1 257 129 | 6 |
| 1998.. | | 1 460 276 | 276 383 | 1 183 893 | X |
| 1997.. | Snack food mfg | 770 377 | 193 394 | 576 983 | 7 |
| 31191 | | 493 926 | 76 508 | 417 418 | X |
| 1998.. | Roasted nuts & peanut butter mfg | 102 911 | 19 178 | 83 733 | 12 |
| 1997.. | | 84 526 | 10 387 | 74 139 | X |
| 311919 | Other snack food mfg | 667 466 | 174 216 | 493 250 | 8 |
| 1998.. | | 409 400 | 66 121 | 343 279 | X |
| 1997.. | Coffee & tea mfg | 138 087 | 12 071 | 126 016 | 3 |
| 31192 | | 166 837 | 11 979 | 154 858 | X |
| 1998.. | Coffee & tea mfg | 138 087 | 12 071 | 126 016 | 3 |
| 1997.. | Flavoring syrup & concentrate mfg | 166 837 | 11 979 | 154 858 | X |
| 31193 | | 83 277 | 13 083 | 70 194 | 1 |
| 1998.. | Flavoring syrup & concentrate mfg | 144 097 | 48 101 | 95 996 | X |
| 1997.. | | 83 277 | 13 083 | 70 194 | 1 |
| 311930 | Seasoning & dressing mfg | 144 097 | 48 101 | 95 996 | X |
| 1998.. | | 204 595 | 45 096 | 159 499 | 17 |
| 1997.. | | 255 205 | 60 051 | 195 154 | X |
| 311941 | Mayonnaise, dressing, & other prepared sauce mfg | 85 441 | 21 470 | 63 971 | 8 |
| 1998.. | | 139 688 | 21 136 | 118 552 | X |
| 1997.. | Spice & extract mfg | 119 154 | 23 626 | 95 528 | 28 |
| 311942 | | 115 517 | 38 915 | 76 602 | X |
| 1998.. | All other food mfg | 436 789 | 112 352 | 324 437 | 15 |
| 1997.. | | 400 211 | 79 744 | 320 467 | X |
| 31199 | Perishable prepared food mfg | 160 557 | 34 002 | 126 555 | 41 |
| 1998.. | | 126 107 | 21 870 | 104 237 | X |
| 1997.. | All other miscellaneous food mfg | 276 232 | 78 350 | 197 882 | 5 |
| 311999 | | 274 104 | 57 874 | 216 230 | X |
| 312 | Beverage & tobacco product mfg | 2 555 570 | 491 981 | 2 063 589 | 6 |
| 1998.. | | 3 036 233 | 423 001 | 2 613 232 | X |
| 1997.. | Beverage mfg | 2 206 881 | 418 726 | 1 788 155 | 7 |
| 31211 | Soft drink & ice mfg | 2 317 663 | 352 859 | 1 964 804 | X |
| 1998.. | | 951 062 | 140 053 | 811 009 | 5 |
| 1997.. | Soft drink mfg | 914 074 | 127 550 | 786 524 | X |
| 312111 | | 879 083 | 126 939 | 752 144 | 5 |
| 1998.. | Bottled water mfg | 50 751 | 11 593 | 39 158 | 23 |
| 1997.. | | 47 508 | 12 653 | 34 855 | X |
| 312112 | Ice mfg | 21 228 | 1 522 | 19 706 | 31 |
| 1998.. | | 33 603 | 4 223 | 29 380 | X |
| 1997.. | Breweries | 785 065 | 168 450 | 616 615 | 17 |
| 31212 | | 977 805 | 140 780 | 837 025 | X |
| 1998.. | Breweries | 785 065 | 168 450 | 616 615 | 17 |
| 1997.. | Wineries | 977 805 | 140 780 | 837 025 | X |
| 31213 | | 412 855 | 94 303 | 318 552 | 12 |
| 1998.. | | 349 844 | 67 571 | 282 273 | X |
| 1997.. | Wineries | 412 855 | 94 303 | 318 552 | 12 |
| 312130 | | 349 844 | 67 571 | 282 273 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|---------------------------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------|
| | | A | B | C | |
| 312 | Beverage & tobacco product mfg—Con. | | | | |
| 3121 | Beverage mfg—Con. | | | | |
| 31214 | Distilleries | 57 899 | 15 920 | 41 979 | 8 |
| 312140 | Distilleries | 1998.. 75 940 1997.. 75 899 | 16 958 15 920 | 58 982 41 979 | X 8 |
| 3122 | Tobacco mfg..... | 348 689 | 73 255 | 275 434 | 1 |
| 31221 | Tobacco stemming & redrying..... | 718 570 | 70 142 | 648 428 | |
| 312210 | Tobacco stemming & redrying..... | 1998.. 28 059 1997.. 26 637 | 2 423 6 061 | 25 636 20 576 | X 1 |
| 31222 | Tobacco product mfg | 320 630 | 70 832 | 249 798 | 1 |
| 312221 | Cigarette mfg | 691 933 | 64 081 | 627 852 | X |
| 312229 | Other tobacco product mfg | 276 333 | 56 318 | 220 015 | 1 |
| 31229 | Other tobacco product mfg | 1998.. 622 688 1997.. 44 297 | 39 248 14 514 | 583 440 29 783 | X |
| 31229 | Other tobacco product mfg | 1998.. 69 245 | 24 833 | 44 412 | X |
| 313 | Textile mills | 2 421 548 | 307 372 | 2 114 177 | 2 |
| 313 | Textile mills | 1998.. 2 699 793 | 385 603 | 2 314 190 | X |
| 3131 | Fiber, yarn, & thread mills | 539 365 | 100 460 | 438 905 | 4 |
| 31311 | Fiber, yarn, & thread mills | 1998.. 543 157 1997.. 539 365 | 73 983 100 460 | 469 174 438 905 | X 4 |
| 313111 | Yarn spinning mills | 543 157 | 73 983 | 469 174 | X |
| 313112 | Yarn texturing, throwing, & twisting mills | 369 269 | 65 713 | 303 556 | 3 |
| 313112 | Yarn texturing, throwing, & twisting mills | 1998.. 438 020 1997.. 154 252 | 57 196 34 154 | 380 824 120 098 | X 13 |
| 313113 | Thread mills | 86 329 | 14 790 | 71 539 | X |
| 313113 | Thread mills | 1998.. 15 844 1997.. 18 808 | 593 1 997 | 15 251 16 811 | 3 X |
| 3132 | Fabric mills | 1 364 708 | 130 662 | 1 234 046 | 2 |
| 31321 | Broadwoven fabric mills | 1 492 490 | 171 205 | 1 321 285 | X |
| 313210 | Broadwoven fabric mills | 1998.. 855 086 1997.. 894 514 | 84 836 105 056 | 770 251 770 251 | 3 X |
| 31322 | Narrow fabric mills & schiffli machine embroidery | 894 514 | 105 056 | 789 458 | X |
| 313221 | Narrow fabric mills | 77 313 | 13 735 | 63 578 | 11 |
| 313222 | Schiffli machine embroidery | 78 465 | 13 734 | 64 731 | X |
| 313222 | Schiffli machine embroidery | 1998.. 72 428 1997.. 72 615 | 13 437 12 794 | 58 991 59 821 | X 11 |
| 31323 | Nonwoven fabric mills | 4 886 | 298 | 4 587 | 32 |
| 31323 | Nonwoven fabric mills | 1998.. 5 850 1997.. 245 261 | 940 14 512 | 4 910 230 749 | X 8 |
| 313230 | Nonwoven fabric mills | 1998.. 300 325 1997.. 245 261 | 23 988 14 512 | 276 337 230 749 | X 8 |
| 31324 | Knit fabric mills | 300 325 | 23 988 | 276 337 | X |
| 31324 | Knit fabric mills | 1998.. 187 048 1997.. 219 186 | 17 580 28 427 | 169 469 190 759 | 3 X |
| 313241 | Weft knit fabric mills | 1998.. 89 461 1997.. 106 429 | 10 958 11 314 | 78 503 95 115 | 6 X |
| 313249 | Other knit fabric & lace mills | 1998.. 97 587 1997.. 112 757 | 6 622 17 113 | 90 966 95 644 | 4 X |
| 3133 | Textile & fabric finishing & fabric coating mills | 517 475 | 76 250 | 441 225 | 5 |
| 31331 | Textile & fabric finishing mills | 1998.. 664 146 1997.. 469 789 | 140 415 73 947 | 523 731 395 842 | X 5 |
| 313311 | Broadwoven fabric finishing mills | 1998.. 589 756 1997.. 292 329 | 128 195 48 780 | 461 561 243 549 | X 7 |
| 313312 | Textile & fabric finishing mills | 1998.. 311 083 1997.. 177 460 | 45 775 25 167 | 265 308 152 292 | X 5 |
| 31332 | Fabric coating mills | 1998.. 278 673 1997.. 47 686 | 82 420 2 303 | 196 253 45 383 | X 31 |
| 313320 | Fabric coating mills | 1998.. 74 390 1997.. 47 686 | 12 220 2 303 | 62 170 45 383 | 31 X |
| 314 | Textile product mills | 1998.. 722 981 1997.. 718 975 | 132 461 126 369 | 590 520 592 606 | 7 X |
| 3141 | Textile furnishings mills | 380 643 | 75 596 | 305 046 | 5 |
| 31411 | Carpet & rug mills | 1998.. 357 803 1997.. 224 888 | 69 359 42 752 | 288 444 182 135 | X 4 |
| 314110 | Carpet & rug mills | 1998.. 209 678 1997.. 224 888 | 38 102 42 752 | 171 576 182 135 | X 4 |
| 31412 | Curtain & linen mills | 1998.. 209 678 1997.. 155 755 | 38 102 32 844 | 171 576 122 911 | X 12 |
| 314121 | Curtain & drapery mills | 1998.. 148 125 1997.. 28 640 | 31 257 6 144 | 116 868 22 497 | 8 X |
| 314129 | Other household textile product mills | 1998.. 32 750 1997.. 127 114 | 7 599 26 700 | 25 151 100 414 | 14 X |
| 3149 | Other textile product mills | 1998.. 115 375 1997.. 342 339 | 23 658 | 91 717 | X |
| 31491 | Textile bag & canvas mills | 1998.. 361 172 1997.. 49 305 | 57 010 4 120 | 285 474 45 185 | 14 X |
| 314911 | Textile bag mills | 1998.. 63 603 1997.. 16 171 | 6 524 1 857 | 304 162 57 079 | 13 X |
| 314912 | Canvas & related product mills | 1998.. 19 062 1997.. 33 134 | 3 304 2 263 | 14 314 15 758 | 22 X |
| 314912 | Canvas & related product mills | 1998.. 44 541 1997.. | 3 220 | 30 871 41 321 | 16 X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|-----------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 314 | Textile product mills—Con. | | | | |
| 3149 | Other textile product mills—Con. | | | | |
| 31499 | All other textile product mills | 293 034 | 52 745 | 240 289 | 16 |
| | 1998.. | 293 034 | 52 745 | 240 289 | X |
| | 1997.. | 297 569 | 50 486 | 247 083 | 21 |
| 314991 | Rope, cordage, & twine mills | 18 267 | 2 152 | 16 115 | X |
| | 1998.. | 18 267 | 2 152 | 16 115 | 8 |
| | 1997.. | 25 018 | 6 773 | 18 245 | X |
| 314992 | Tire cord & tire fabric mills | 47 422 | 5 978 | 41 444 | X |
| | 1998.. | 47 422 | 5 978 | 41 444 | 21 |
| | 1997.. | 66 792 | 11 136 | 55 656 | X |
| 314999 | All other miscellaneous textile product mills | 227 344 | 44 614 | 182 730 | 21 |
| | 1998.. | 227 344 | 44 614 | 182 730 | X |
| | 1997.. | 205 759 | 32 577 | 173 182 | |
| 315 | Apparel mfg | 1 055 481 | 196 926 | 858 555 | 2 |
| | 1998.. | 1 055 481 | 196 926 | 858 555 | X |
| | 1997.. | 973 556 | 232 153 | 741 403 | |
| 3151 | Apparel knitting mills | 327 701 | 31 737 | 295 965 | 5 |
| | 1998.. | 327 701 | 31 737 | 295 965 | X |
| | 1997.. | 242 543 | 33 573 | 208 970 | 1 |
| 31511 | Hosiery & sock mills | 230 482 | 7 071 | 223 411 | X |
| | 1998.. | 230 482 | 7 071 | 223 411 | 10 |
| 315111 | Sheer hosiery mills | 131 199 | 20 364 | 110 835 | X |
| | 1998.. | 131 199 | 19 354 | 110 835 | 10 |
| | 1997.. | 34 759 | 1 782 | 17 573 | X |
| 315119 | Other hosiery & sock mills | 211 127 | 3 623 | 205 838 | 1 |
| | 1998.. | 211 127 | 5 289 | 205 838 | X |
| | 1997.. | 96 440 | 16 741 | 79 699 | 18 |
| 31519 | Other apparel knitting mills | 97 220 | 24 666 | 72 554 | X |
| | 1998.. | 97 220 | 111 344 | 13 209 | X |
| | 1997.. | 80 016 | 22 709 | 98 135 | 22 |
| 315191 | Outerwear knitting mills | 93 099 | 10 198 | 57 307 | X |
| | 1998.. | 93 099 | 1 957 | 82 901 | 3 |
| 315192 | Underwear & nightwear knitting mills | 17 204 | 3 011 | 15 247 | X |
| | 1998.. | 17 204 | 18 245 | 15 234 | |
| 3152 | Cut & sew apparel mfg | 640 697 | 153 621 | 487 076 | 2 |
| | 1998.. | 640 697 | 153 621 | 487 076 | X |
| | 1997.. | 631 345 | 180 315 | 451 030 | 8 |
| 31521 | Cut & sew apparel contractors | 121 163 | 30 164 | 90 999 | X |
| | 1998.. | 121 163 | 30 164 | 90 999 | 15 |
| 315211 | Men's & boys' cut & sew apparel contractors ... | 144 250 | 33 347 | 110 903 | X |
| | 1998.. | 144 250 | 47 120 | 35 461 | 15 |
| | 1997.. | 30 403 | 5 991 | 24 412 | X |
| 315212 | Women's, girls', & infants' cut & sew apparel contractors | 74 042 | 18 504 | 55 538 | 8 |
| | 1998.. | 74 042 | 113 847 | 86 491 | X |
| | 1997.. | 27 356 | 39 733 | 152 566 | 3 |
| 31522 | Men's & boys' cut & sew apparel mfg | 192 300 | 50 623 | 154 616 | X |
| | 1998.. | 192 300 | 205 239 | 154 616 | |
| 315221 | Men's & boys' cut & sew underwear & nightwear mfg | 8 529 | 3 412 | 5 116 | 21 |
| | 1998.. | 8 529 | 7 813 | 6 451 | X |
| 315222 | Men's & boys' cut & sew suit, coat, & overcoat mfg | 15 617 | 4 655 | 10 963 | 20 |
| | 1998.. | 15 617 | 16 300 | 12 709 | X |
| 315223 | Men's & boys' cut & sew shirt (exc work shirt) mfg | 63 688 | 12 373 | 51 316 | 4 |
| | 1998.. | 63 688 | 57 163 | 47 047 | X |
| 315224 | Men's & boys' cut & sew trouser, slack, & jean mfg | 68 450 | 12 763 | 55 687 | 2 |
| | 1998.. | 68 450 | 52 313 | 42 129 | X |
| | 1997.. | 10 184 | 19 501 | 17 765 | 9 |
| 315225 | Men's & boys' cut & sew work clothing mfg | 29 916 | 11 972 | 17 944 | X |
| | 1998.. | 29 916 | 16 515 | 4 794 | 7 |
| | 1997.. | 41 734 | 13 398 | 11 721 | X |
| 315228 | Men's & boys' cut & sew other outerwear mfg .. | 286 285 | 79 758 | 28 336 | |
| | 1998.. | 286 285 | 253 347 | 206 527 | 2 |
| 31523 | Women's & girls' cut & sew apparel mfg | 89 121 | 89 121 | 164 226 | X |
| | 1997.. | 89 121 | 16 060 | 15 203 | |
| 315231 | Women's & girls' cut/sew lingerie & nightwear mfg | 19 790 | 3 730 | 16 060 | 6 |
| | 1998.. | 19 790 | 20 798 | 5 595 | X |
| 315232 | Women's & girls' cut & sew blouse & shirt mfg | 109 558 | 21 781 | 87 777 | 1 |
| | 1998.. | 109 558 | 31 287 | 7 058 | X |
| | 1997.. | 24 229 | 80 599 | 30 689 | 7 |
| 315233 | Women's & girls' cut & sew dress mfg | 45 763 | 14 130 | 49 910 | X |
| | 1998.. | 45 763 | 24 762 | 10 550 | 6 |
| 315234 | Women's & girls' cut & sew suit, coat, skirt mfg | 22 265 | 6 897 | 15 368 | X |
| | 1998.. | 22 265 | 51 576 | 9 345 | 5 |
| 315239 | Women's & girls' cut & sew other outerwear mfg | 133 234 | 55 441 | 42 231 | X |
| | 1997.. | 77 793 | 28 509 | 3 967 | 10 |
| 31529 | Other cut & sew apparel mfg | 40 949 | 7 224 | 36 983 | X |
| | 1998.. | 40 949 | 22 601 | 2 452 | 21 285 |
| 315291 | Infants' cut & sew apparel mfg | 7 612 | 1 717 | 20 149 | 1 |
| | 1998.. | 7 612 | 3 511 | 5 895 | X |
| 315292 | Fur & leather apparel mfg | 1 652 | 262 | 1 391 | 41 |
| | 1998.. | 1 652 | 3 26 | 3 185 | X |
| 315299 | All other cut & sew apparel mfg | 16 696 | 1 253 | 15 443 | 24 |
| | 1998.. | 16 696 | 17 386 | 5 181 | X |
| | 1997.. | 12 205 | 6 897 | 12 205 | |
| 3159 | Apparel accessories & other apparel mfg | 87 083 | 11 569 | 75 514 | 14 |
| | 1998.. | 87 083 | 99 668 | 18 265 | X |
| | 1997.. | 81 403 | 11 569 | 75 514 | 14 |
| 31599 | Apparel accessories & other apparel mfg | 87 083 | 99 668 | 18 265 | X |
| | 1998.. | 87 083 | 15 574 | 3 014 | 11 |
| | 1997.. | 81 403 | 18 909 | 4 938 | X |
| 315991 | Hat, cap, & millinery mfg | 15 574 | 3 281 | 12 560 | |
| | 1998.. | 15 574 | 7 684 | 1 163 | 9 |
| 315992 | Glove & mitten mfg | 8 058 | 403 | 7 777 | X |
| | 1998.. | 8 058 | 3 623 | 71 | 3 220 |
| 315993 | Men's & boys' neckwear mfg | 2 221 | 403 | 2 150 | 36 |
| | 1998.. | 2 221 | 3 623 | 53 027 | X |
| 315999 | Other apparel accessories & other apparel mfg | 61 230 | 8 203 | 57 691 | 20 |
| | 1998.. | 61 230 | 69 452 | 57 691 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|------------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 316 | Leather & allied product mfg | 136 946 | 22 986 | 113 960 | 7 |
| | 1998.. | 170 721 | 24 303 | 146 418 | X |
| 3161 | Leather & hide tanning & finishing | 52 471 | 9 160 | 43 311 | 17 |
| | 1998.. | 63 091 | 8 269 | 54 822 | X |
| 31611 | Leather & hide tanning & finishing | 52 471 | 9 160 | 43 311 | 17 |
| | 1998.. | 63 091 | 8 269 | 54 822 | X |
| 316110 | Leather & hide tanning & finishing | 52 471 | 9 160 | 43 311 | 17 |
| | 1998.. | 63 091 | 8 269 | 54 822 | X |
| 3162 | Footwear mfg | 45 182 | 9 853 | 35 329 | 8 |
| | 1998.. | 54 392 | 9 187 | 45 205 | X |
| 31621 | Footwear mfg | 45 182 | 9 853 | 35 329 | 8 |
| | 1998.. | 54 392 | 9 187 | 45 205 | X |
| 316211 | Rubber & plastics footwear mfg | 9 169 | 1 718 | 7 451 | 5 |
| | 1998.. | 19 850 | 3 736 | 16 114 | X |
| 316212 | House slipper mfg | 1 115 | 86 | 1 029 | 27 |
| | 1998.. | 2 247 | 352 | 1 895 | X |
| 316213 | Men's footwear (except athletic) mfg | 25 181 | 6 283 | 18 898 | 10 |
| | 1998.. | 23 244 | 3 855 | 19 389 | X |
| 316214 | Women's footwear (except athletic) mfg | 6 723 | 1 351 | 5 372 | 32 |
| | 1998.. | 5 162 | 767 | 4 395 | X |
| 316219 | Other footwear mfg | 2 994 | 414 | 2 580 | 27 |
| | 1997.. | 3 889 | 477 | 3 412 | X |
| 3169 | Other leather & allied product mfg | 39 292 | 3 973 | 35 320 | 6 |
| | 1998.. | 53 238 | 6 847 | 46 391 | X |
| 31699 | Other leather & allied product mfg | 39 292 | 3 973 | 35 320 | 6 |
| | 1998.. | 53 238 | 6 847 | 46 391 | X |
| 316991 | Luggage mfg | 18 211 | 2 523 | 15 687 | 5 |
| | 1998.. | 18 943 | 3 163 | 15 780 | X |
| 316992 | Women's handbag & purse mfg | 2 574 | 494 | 2 080 | 40 |
| | 1998.. | 8 396 | 743 | 7 653 | X |
| 316993 | Personal leather good (except women's handbag & purse) mfg | 4 363 | 587 | 3 776 | 26 |
| | 1998.. | 5 010 | 363 | 4 647 | X |
| 316999 | All other leather good mfg | 14 145 | 368 | 13 777 | 13 |
| | 1998.. | 20 889 | 2 578 | 18 311 | X |
| 321 | Wood product mfg | 2 762 847 | 530 442 | 2 232 405 | 3 |
| | 1998.. | 2 878 580 | 545 612 | 2 332 968 | X |
| 3211 | Sawmills & wood preservation | 1 085 185 | 143 582 | 941 603 | 5 |
| | 1997.. | 1 162 953 | 176 015 | 986 938 | X |
| 32111 | Sawmills & wood preservation | 1 085 185 | 143 582 | 941 603 | 5 |
| | 1998.. | 1 162 953 | 176 015 | 986 938 | X |
| 321113 | Sawmills | 1 007 346 | 120 636 | 886 711 | 5 |
| | 1998.. | 1 081 383 | 153 019 | 928 364 | X |
| 321114 | Wood preservation | 77 839 | 22 947 | 54 892 | 22 |
| | 1997.. | 81 570 | 22 996 | 58 574 | X |
| 3212 | Veneer, plywood, & engineered wood product mfg | 666 511 | 114 259 | 552 252 | 4 |
| | 1998.. | 764 186 | 99 382 | 664 804 | X |
| 32121 | Veneer, plywood, & engineered wood product mfg | 666 511 | 114 259 | 552 252 | 4 |
| | 1998.. | 764 186 | 99 382 | 664 804 | X |
| 321211 | Hardwood veneer & plywood mfg | 74 990 | 21 379 | 53 611 | 30 |
| | 1997.. | 72 039 | 11 706 | 60 333 | X |
| 321212 | Softwood veneer & plywood mfg | 130 184 | 19 874 | 110 311 | 5 |
| | 1998.. | 163 510 | 12 566 | 150 944 | X |
| 321213 | Engineered wood member (except truss) mfg | 69 130 | 13 588 | 55 542 | 1 |
| | 1997.. | 53 742 | 18 019 | 35 723 | X |
| 321214 | Truss mfg | 99 717 | 23 300 | 76 417 | 15 |
| | 1997.. | 85 217 | 17 497 | 67 720 | X |
| 321219 | Reconstituted wood product mfg | 292 490 | 36 118 | 256 372 | 1 |
| | 1998.. | 389 678 | 39 594 | 350 084 | X |
| 3219 | Other wood product mfg | 1 011 152 | 272 601 | 738 551 | 5 |
| | 1997.. | 951 441 | 270 215 | 681 226 | X |
| 32191 | Millwork | 538 898 | 113 848 | 425 050 | 8 |
| | 1998.. | 473 647 | 92 724 | 380 923 | X |
| 321911 | Wood window & door mfg | 227 880 | 55 181 | 172 699 | 9 |
| | 1998.. | 207 621 | 40 851 | 166 770 | X |
| 321912 | Cut stock, resawing lumber, & planing | 208 174 | 37 985 | 170 188 | 18 |
| | 1997.. | 161 273 | 29 406 | 131 867 | X |
| 321918 | Other millwork (including flooring) | 102 845 | 20 681 | 82 163 | 11 |
| | 1997.. | 104 753 | 22 467 | 82 286 | X |
| 32192 | Wood container & pallet mfg | 136 193 | 22 967 | 113 227 | 9 |
| | 1998.. | 130 247 | 24 342 | 105 905 | X |
| 321920 | Wood container & pallet mfg | 136 193 | 22 967 | 113 227 | 9 |
| | 1998.. | 130 247 | 24 342 | 105 905 | X |
| 32199 | All other wood product mfg | 336 060 | 135 787 | 200 274 | 7 |
| | 1997.. | 347 547 | 153 149 | 194 398 | X |
| 321991 | Manufactured home (mobile home) mfg | 134 177 | 87 001 | 47 175 | 15 |
| | 1998.. | 141 500 | 81 832 | 59 668 | X |
| 321992 | Prefabricated wood building mfg | 66 369 | 27 907 | 38 462 | 14 |
| | 1997.. | 56 149 | 16 850 | 39 299 | X |
| 321999 | All other miscellaneous wood product mfg | 135 515 | 20 879 | 114 636 | 7 |
| | 1997.. | 149 898 | 54 467 | 95 431 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|---------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | A |
| 322 | Paper mfg | 8 517 867 | 689 400 | 7 828 466 | 4 |
| | 1998.. | 8 617 345 | 775 650 | 7 841 695 | X |
| 3221 | Pulp, paper, & paperboard mills | 5 676 232 | 333 574 | 5 342 658 | 5 |
| | 1998.. | 5 672 040 | 424 830 | 5 247 210 | X |
| 32211 | Pulp mills | 473 075 | 12 870 | 460 205 | 5 |
| 322110 | Pulp mills | 469 403 | 28 765 | 440 638 | X |
| 32212 | Paper mills | 473 075 | 12 870 | 460 205 | 5 |
| | 1998.. | 469 403 | 28 765 | 440 638 | X |
| 32212 | Paper mills | 3 788 260 | 226 602 | 3 561 657 | 8 |
| | 1998.. | 3 590 824 | 278 173 | 3 312 651 | X |
| 322121 | Paper (except newsprint) mills | 3 180 502 | 208 518 | 2 971 984 | 9 |
| | 1998.. | 3 226 408 | 251 159 | 2 975 249 | X |
| 322122 | Newsprint mills | 607 757 | 18 085 | 589 673 | 2 |
| | 1997.. | 364 416 | 27 014 | 337 402 | X |
| 32213 | Paperboard mills | 1 414 897 | 94 101 | 1 320 797 | 3 |
| | 1998.. | 1 611 813 | 117 892 | 1 493 921 | X |
| 322130 | Paperboard mills | 1 414 897 | 94 101 | 1 320 797 | 3 |
| | 1997.. | 1 611 813 | 117 892 | 1 493 921 | X |
| 3222 | Converted paper product mfg | 2 841 635 | 355 827 | 2 485 808 | 7 |
| | 1997.. | 2 945 305 | 350 820 | 2 594 485 | X |
| 32221 | Paperboard container mfg | 1 544 390 | 208 873 | 1 335 517 | 13 |
| | 1998.. | 1 573 025 | 220 343 | 1 352 682 | X |
| 322211 | Corrugated & solid fiber box mfg | 966 548 | 127 321 | 839 227 | 20 |
| | 1998.. | 963 562 | 123 823 | 839 739 | X |
| 322212 | Folding paperboard box mfg | 398 612 | 61 495 | 337 117 | 9 |
| | 1997.. | 451 324 | 65 205 | 366 119 | X |
| 322213 | Setup paperboard box mfg | S | S | S | S |
| | 1998.. | 21 695 | 2 303 | 19 392 | X |
| 322214 | Fiber can, tube, drum, & similar products mfg .. | 62 748 | 7 827 | 54 921 | 19 |
| | 1997.. | 69 023 | 20 539 | 48 484 | X |
| 322215 | Nonfolding sanitary food container mfg | 110 075 | 11 767 | 98 308 | 4 |
| | 1997.. | 67 421 | 8 473 | 58 948 | X |
| 32222 | Paper bag & coated & treated paper mfg | 635 092 | 95 431 | 539 662 | 2 |
| | 1998.. | 570 317 | 45 175 | 525 142 | X |
| 322221 | Coated & laminated packaging paper & plastics film mfg | 33 955 | 10 531 | 23 424 | 25 |
| | 1997.. | 46 600 | 4 725 | 41 875 | X |
| 322222 | Coated & laminated paper mfg | 469 489 | 64 556 | 404 934 | 2 |
| | 1998.. | 368 500 | 28 414 | 340 086 | X |
| 322223 | Plastics, foil, & coated paper bag mfg | 19 071 | 2 070 | 17 001 | 17 |
| | 1998.. | 16 620 | 1 337 | 15 283 | X |
| 322224 | Uncoated paper & multiwall bag mfg | 59 582 | 11 648 | 47 934 | 3 |
| | 1997.. | 86 504 | 4 463 | 82 041 | X |
| 322225 | Laminated aluminum foil mfg for flexible packaging uses | 34 076 | 1 552 | 32 524 | 2 |
| | 1998.. | 36 925 | 3 834 | 33 091 | X |
| 322226 | Surface-coated paperboard mfg | 18 920 | 5 074 | 13 846 | 23 |
| | 1998.. | 15 168 | 2 402 | 12 766 | X |
| 322223 | Stationery product mfg | 186 987 | 16 496 | 170 491 | 13 |
| | 1997.. | 247 912 | 33 258 | 214 654 | X |
| 322231 | Die-cut paper & paperboard office supplies mfg | 62 134 | 3 982 | 58 152 | 25 |
| | 1998.. | 55 783 | 7 469 | 48 314 | X |
| 322232 | Envelope mfg | 96 926 | 8 895 | 88 031 | 20 |
| | 1998.. | 147 787 | 21 165 | 126 622 | X |
| 322233 | Stationery, tablet, & related product mfg | 27 927 | 3 619 | 24 308 | 9 |
| | 1998.. | 44 342 | 4 624 | 39 718 | X |
| 322229 | Other converted paper product mfg | 475 165 | 35 027 | 440 138 | 4 |
| | 1997.. | 554 051 | 52 044 | 502 007 | X |
| 322291 | Sanitary paper product mfg | 378 786 | 21 117 | 357 669 | 3 |
| | 1998.. | 434 769 | 34 483 | 400 286 | X |
| 322299 | All other converted paper product mfg | 96 379 | 13 910 | 82 469 | 13 |
| | 1997.. | 119 282 | 17 561 | 101 721 | X |
| 323 | Printing & related support activities | 4 761 451 | 585 824 | 4 175 627 | 4 |
| | 1997.. | 5 065 924 | 722 674 | 4 343 250 | X |
| 3231 | Printing & related support activities | 4 761 451 | 585 824 | 4 175 627 | 4 |
| | 1998.. | 5 065 924 | 722 674 | 4 343 250 | X |
| 32311 | Printing | 4 397 813 | 532 319 | 3 865 495 | 4 |
| | 1997.. | 4 715 068 | 695 179 | 4 019 889 | X |
| 323110 | Commercial lithographic printing | 2 718 840 | 298 103 | 2 420 738 | 5 |
| | 1997.. | 3 009 216 | 435 600 | 2 573 616 | X |
| 323111 | Commercial gravure printing | 280 311 | 50 693 | 229 618 | 10 |
| | 1997.. | 252 795 | 42 133 | 210 662 | X |
| 323112 | Commercial flexographic printing | 219 791 | 20 753 | 199 038 | 10 |
| | 1997.. | 209 901 | 40 963 | 168 938 | X |
| 323113 | Commercial screen printing | 249 712 | 47 846 | 201 866 | 10 |
| | 1997.. | 265 213 | 54 618 | 210 595 | X |
| 323114 | Quick printing | 160 771 | 14 688 | 146 083 | 15 |
| | 1997.. | 193 724 | 16 162 | 177 562 | X |
| 323115 | Digital printing | 26 132 | 4 731 | 21 401 | 58 |
| | 1997.. | 27 701 | 3 625 | 24 076 | X |
| 323116 | Manifold business form printing | 192 402 | 14 344 | 178 058 | 10 |
| | 1997.. | 258 598 | 35 588 | 223 010 | X |
| 323117 | Book printing | 302 778 | 37 125 | 265 653 | 10 |
| | 1997.. | 289 952 | 34 668 | 255 284 | X |
| 323118 | Blankbook, looseleaf binder, & device mfg | 130 035 | 25 603 | 104 432 | 45 |
| | 1997.. | 82 926 | 11 001 | 71 925 | X |
| 323119 | Other commercial printing | 117 041 | 18 434 | 98 607 | 12 |
| | 1997.. | 125 042 | 20 821 | 104 221 | X |
| 32312 | Support activities for printing | 363 638 | 53 506 | 310 132 | 16 |
| | 1997.. | 350 856 | 27 495 | 323 361 | X |
| 323121 | Tradebinding & related work | 89 574 | 5 121 | 84 453 | 15 |
| | 1997.. | 89 559 | 6 636 | 82 923 | X |
| 323122 | Prepress services | 274 064 | 48 385 | 225 679 | 20 |
| | 1997.. | 261 297 | 20 859 | 240 438 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|--------------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 324 | Petroleum & coal products mfg | 5 033 611 | 891 165 | 4 142 445 | 1 |
| | 1998.. | 4 757 215 | 510 105 | 4 247 110 | X |
| 3241 | Petroleum & coal products mfg | 5 033 611 | 891 165 | 4 142 445 | 1 |
| | 1997.. | 4 757 215 | 510 105 | 4 247 110 | X |
| 32411 | Petroleum refineries | 4 248 059 | 752 589 | 3 495 470 | 1 |
| | 1998.. | 4 244 371 | 422 156 | 3 822 215 | X |
| 324110 | Petroleum refineries | 4 248 059 | 752 589 | 3 495 470 | 1 |
| | 1997.. | 4 244 371 | 422 156 | 3 822 215 | X |
| 32412 | Asphalt paving, roofing, & saturated materials mfg | 607 330 | 105 595 | 501 735 | 6 |
| | 1998.. | 347 208 | 48 963 | 298 245 | X |
| 324121 | Asphalt paving mixture & block mfg | 458 511 | 83 459 | 375 052 | 7 |
| | 1997.. | 197 270 | 13 323 | 183 947 | X |
| 324122 | Asphalt shingle & coating materials mfg | 148 819 | 22 136 | 126 683 | 4 |
| | 1998.. | 149 938 | 35 640 | 114 298 | X |
| 32419 | Other petroleum & coal products mfg | 178 222 | 32 982 | 145 241 | 20 |
| | 1998.. | 165 636 | 38 986 | 126 650 | X |
| 324191 | Petroleum lubricating oil & grease mfg | 99 527 | 27 091 | 72 436 | 16 |
| | 1997.. | 105 539 | 23 837 | 81 702 | X |
| 324199 | All other petroleum & coal products mfg | 78 696 | 5 891 | 72 805 | 40 |
| | 1998.. | 60 097 | 15 149 | 44 948 | X |
| 325 | Chemical mfg | 21 548 258 | 2 821 850 | 18 726 408 | 1 |
| | 1997.. | 21 652 077 | 3 293 749 | 18 358 328 | X |
| 3251 | Basic chemical mfg | 7 268 495 | 454 337 | 6 814 157 | 1 |
| | 1998.. | 7 850 735 | 623 336 | 7 227 399 | X |
| 32511 | Petrochemical mfg | 635 889 | 17 145 | 618 744 | 2 |
| | 1998.. | 988 915 | 27 541 | 961 374 | X |
| 325110 | Petrochemical mfg | 635 889 | 17 145 | 618 744 | 2 |
| | 1997.. | 988 915 | 27 541 | 961 374 | X |
| 32512 | Industrial gas mfg | 659 412 | 18 648 | 640 764 | 1 |
| | 1998.. | 728 910 | 17 321 | 711 589 | X |
| 325120 | Industrial gas mfg | 659 412 | 18 648 | 640 764 | 1 |
| | 1997.. | 728 910 | 17 321 | 711 589 | X |
| 32513 | Dye & pigment mfg | 313 884 | 35 512 | 278 372 | 1 |
| | 1998.. | 340 623 | 60 740 | 279 883 | X |
| 325131 | Inorganic dye & pigment mfg | 192 711 | 19 309 | 173 402 | 1 |
| | 1998.. | 212 501 | 45 242 | 167 259 | X |
| 325132 | Synthetic organic dye & pigment mfg | 121 173 | 16 204 | 104 970 | 3 |
| | 1997.. | 128 122 | 15 498 | 112 624 | X |
| 32518 | Other basic inorganic chemical mfg | 1 384 971 | 130 892 | 1 254 079 | 5 |
| | 1998.. | 1 227 490 | 134 408 | 1 093 082 | X |
| 325181 | Alkalies & chlorine mfg | 225 289 | 12 934 | 212 355 | 1 |
| | 1998.. | 284 549 | 11 231 | 273 318 | X |
| 325182 | Carbon black mfg | 76 618 | 12 054 | 64 565 | 37 |
| | 1998.. | 89 107 | 2 563 | 86 544 | X |
| 325188 | All other basic inorganic chemical mfg | 1 083 065 | 105 905 | 977 160 | 6 |
| | 1997.. | 853 834 | 120 614 | 733 220 | X |
| 32519 | Other basic organic chemical mfg | 4 274 338 | 252 140 | 4 022 198 | 1 |
| | 1998.. | 4 564 797 | 383 326 | 4 181 471 | X |
| 325191 | Gum & wood chemical mfg | 32 554 | 3 086 | 29 468 | 3 |
| | 1997.. | 33 601 | 3 559 | 30 042 | X |
| 325192 | Cyclic crude & intermediate mfg | 381 827 | 14 289 | 367 538 | 1 |
| | 1998.. | 768 610 | 48 786 | 719 824 | X |
| 325193 | Ethyl alcohol mfg | 66 197 | 19 130 | 47 067 | 25 |
| | 1998.. | 38 249 | 13 734 | 24 515 | X |
| 325199 | All other basic organic chemical mfg | 3 793 760 | 215 635 | 3 578 125 | 1 |
| | 1997.. | 3 724 337 | 317 247 | 3 407 090 | X |
| 3252 | Resin, syn rubber, & artificial & syn fibers & filaments mfg | 4 311 832 | 263 155 | 4 048 676 | 3 |
| | 1998.. | 3 953 626 | 366 127 | 3 587 499 | X |
| 32521 | Resin & synthetic rubber mfg | 3 692 608 | 211 133 | 3 481 476 | 4 |
| | 1997.. | 3 312 383 | 320 461 | 2 991 922 | X |
| 325211 | Plastics material & resin mfg | 3 356 741 | 195 745 | 3 160 996 | 4 |
| | 1997.. | 2 923 891 | 292 431 | 2 631 460 | X |
| 325212 | Synthetic rubber mfg | 335 867 | 15 388 | 320 479 | 1 |
| | 1997.. | 388 492 | 28 030 | 360 462 | X |
| 32522 | Artificial & synthetic fibers & filaments mfg | 619 223 | 52 023 | 567 201 | 2 |
| | 1997.. | 641 243 | 45 666 | 595 577 | X |
| 325221 | Cellulosic organic fiber mfg | 73 535 | 4 868 | 68 667 | 1 |
| | 1997.. | 46 741 | 2 640 | 44 101 | X |
| 325222 | Noncellulosic organic fiber mfg | 545 688 | 47 155 | 498 534 | 2 |
| | 1997.. | 594 502 | 43 026 | 551 476 | X |
| 3253 | Pesticide, fertilizer, & other agricultural chemical mfg | 1 168 814 | 64 427 | 1 104 387 | 14 |
| | 1998.. | 1 330 884 | 110 624 | 1 220 260 | X |
| 32531 | Fertilizer mfg | 776 658 | 39 739 | 736 919 | 20 |
| | 1998.. | 893 615 | 71 110 | 822 505 | X |
| 325311 | Nitrogenous fertilizer mfg | 390 391 | 4 878 | 385 513 | 15 |
| | 1997.. | 589 737 | 11 134 | 578 603 | X |
| 325312 | Phosphatic fertilizer mfg | 335 699 | 17 308 | 318 391 | 44 |
| | 1997.. | 232 758 | 43 388 | 189 370 | X |
| 325314 | Fertilizer (mixing only) mfg | 50 568 | 17 554 | 33 014 | 12 |
| | 1997.. | 71 120 | 16 588 | 54 532 | X |
| 32532 | Pesticide & other agricultural chemical mfg | 392 156 | 24 687 | 367 468 | 2 |
| | 1997.. | 437 269 | 39 514 | 397 755 | X |
| 325320 | Pesticide & other agricultural chemical mfg | 392 156 | 24 687 | 367 468 | 2 |
| | 1997.. | 437 269 | 39 514 | 397 755 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

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| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|--------------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 325 | Chemical mfg—Con. | | | | |
| 3254 | Pharmaceutical & medicine mfg | 4 529 981 | 1 268 614 | 3 261 367 | 2 |
| | 1998.. | 4 769 321 | 1 565 794 | 3 203 527 | X |
| 32541 | 1997.. | 4 529 981 | 1 268 614 | 3 261 367 | 2 |
| | Pharmaceutical & medicine mfg | 4 769 321 | 1 565 794 | 3 203 527 | X |
| 325411 | Medicinal & botanical mfg | 1 113 209 | 216 742 | 896 467 | 6 |
| | 1998.. | 1 125 300 | 266 869 | 858 431 | X |
| 325412 | 1997.. | 2 395 352 | 780 987 | 1 614 365 | 3 |
| | Pharmaceutical preparation mfg | 2 498 866 | 944 692 | 1 554 174 | X |
| 325413 | 1998.. | 631 281 | 117 057 | 514 224 | 2 |
| | 1997.. | 714 167 | 167 852 | 546 315 | X |
| 325414 | Biological product (except diagnostic) mfg | 390 138 | 153 827 | 236 311 | 2 |
| | 1998.. | 430 988 | 186 381 | 244 607 | X |
| 3255 | 1997.. | 430 988 | 186 381 | 244 607 | X |
| 3255 | Paint, coating, & adhesive mfg | 728 289 | 178 536 | 549 753 | 8 |
| | 1998.. | 658 941 | 135 819 | 523 122 | X |
| 32551 | 1997.. | 487 113 | 130 286 | 356 827 | 12 |
| | Paint & coating mfg | 413 658 | 80 979 | 332 679 | X |
| 325510 | 1998.. | 487 113 | 130 286 | 356 827 | 12 |
| | 1997.. | 413 658 | 80 979 | 332 679 | X |
| 32552 | Adhesive mfg | 241 176 | 48 250 | 192 926 | 9 |
| | 1998.. | 245 283 | 54 840 | 190 443 | X |
| 325520 | 1997.. | 241 176 | 48 250 | 192 926 | 9 |
| | 1998.. | 245 283 | 54 840 | 190 443 | X |
| 3256 | Soap, cleaning compound, & toilet preparation mfg | 1 685 478 | 338 031 | 1 347 447 | 3 |
| | 1998.. | 1 484 210 | 245 462 | 1 238 748 | X |
| 32561 | 1997.. | 997 162 | 170 338 | 826 824 | 3 |
| | Soap & cleaning compound mfg | 907 561 | 126 838 | 780 723 | X |
| 325611 | 1998.. | 473 649 | 79 615 | 394 034 | 5 |
| | 1997.. | 465 092 | 66 669 | 398 423 | X |
| 325612 | Polish & other sanitation good mfg | 212 183 | 46 772 | 165 411 | 4 |
| | 1998.. | 153 642 | 26 395 | 127 247 | X |
| 325613 | 1997.. | 311 331 | 43 952 | 267 379 | 5 |
| | Surface active agent mfg | 288 827 | 33 774 | 255 053 | X |
| 32562 | Toilet preparation mfg | 688 316 | 167 693 | 520 623 | 7 |
| | 1998.. | 576 649 | 118 624 | 458 025 | X |
| 325620 | 1997.. | 688 316 | 167 693 | 520 623 | 7 |
| | 1998.. | 576 649 | 118 624 | 458 025 | X |
| 3259 | Other chemical product mfg | 1 855 370 | 254 750 | 1 600 620 | 5 |
| | 1998.. | 1 604 360 | 246 587 | 1 357 773 | X |
| 32591 | 1997.. | 67 932 | 10 321 | 57 611 | 11 |
| 325910 | Printing ink mfg | 90 688 | 19 505 | 71 183 | X |
| | 1998.. | 67 932 | 10 321 | 57 611 | 11 |
| 32592 | 1997.. | 90 688 | 19 505 | 71 183 | X |
| 32592 | Explosives mfg | 56 374 | 12 938 | 43 436 | 16 |
| | 1998.. | 44 209 | 8 491 | 35 718 | X |
| 325920 | 1997.. | 56 374 | 12 938 | 43 436 | 16 |
| | Explosives mfg | 44 209 | 8 491 | 35 718 | X |
| 32599 | All other chemical product & preparation mfg | 1 731 065 | 231 491 | 1 499 574 | 5 |
| | 1998.. | 1 469 463 | 218 591 | 1 250 872 | X |
| 325991 | Custom compounding of purchased resin | 239 569 | 42 774 | 196 795 | 6 |
| | 1998.. | 286 121 | 47 240 | 238 881 | X |
| 325992 | Photographic film, paper, plate, & chemical mfg | 880 997 | 60 106 | 820 891 | 10 |
| | 1998.. | 568 792 | 63 530 | 505 262 | X |
| 325998 | All other miscellaneous chemical product & preparation mfg | 610 499 | 128 611 | 481 887 | 2 |
| | 1997.. | 614 550 | 107 821 | 506 729 | X |
| 326 | Plastics & rubber products mfg | 8 134 518 | 1 207 881 | 6 926 637 | 2 |
| | 1998.. | 7 907 107 | 1 089 106 | 6 818 001 | X |
| 3261 | Plastics product mfg | 6 600 521 | 1 017 892 | 5 582 629 | 2 |
| | 1997.. | 6 515 732 | 922 308 | 5 593 424 | X |
| 32611 | Unsupported plastics film, sheet, & bag mfg | 1 172 754 | 162 110 | 1 010 644 | 5 |
| | 1998.. | 1 329 256 | 188 815 | 1 140 441 | X |
| 326111 | 1997.. | 309 144 | 30 118 | 279 026 | 9 |
| | Unsupported plastics bag mfg | 367 097 | 43 038 | 324 059 | X |
| 326112 | Unsupported plastics packaging film & sheet mfg | 176 425 | 31 662 | 144 763 | 17 |
| | 1998.. | 215 240 | 33 944 | 181 296 | X |
| 326113 | Unsupported plastics film & sheet (except packaging) mfg | 687 184 | 100 330 | 586 855 | 6 |
| | 1997.. | 746 919 | 111 833 | 635 086 | X |
| 32612 | Plastics pipe, pipe fitting, & unsupported profile shape mfg | 436 778 | 56 373 | 380 405 | 7 |
| | 1998.. | 462 062 | 66 886 | 395 176 | X |
| 326121 | 1997.. | 199 912 | 26 696 | 173 215 | 6 |
| 326122 | Plastics pipe & pipe fitting mfg | 218 724 | 37 066 | 181 658 | X |
| | 1998.. | 236 866 | 29 676 | 207 190 | 12 |
| | 1997.. | 243 338 | 29 820 | 213 518 | X |
| 32613 | Laminated plastics plate, sheet, & shape mfg | 113 953 | 8 899 | 105 055 | 10 |
| | 1998.. | 139 284 | 16 708 | 122 576 | X |
| 326130 | 1997.. | 113 953 | 8 899 | 105 055 | 10 |
| | Laminated plastics plate, sheet, & shape mfg | 139 284 | 16 708 | 122 576 | X |
| 32614 | Polystyrene foam product mfg | 376 039 | 107 936 | 268 104 | 12 |
| | 1998.. | 333 683 | 81 927 | 251 756 | X |
| 326140 | 1997.. | 376 039 | 107 936 | 268 104 | 12 |
| | Polystyrene foam product mfg | 333 683 | 81 927 | 251 756 | X |
| 32615 | Urethane & other foam product (except polystyrene) mfg | 199 512 | 25 650 | 173 862 | 8 |
| | 1998.. | 217 656 | 40 068 | 177 588 | X |
| 326150 | 1997.. | 199 512 | 25 650 | 173 862 | 8 |
| | Urethane & other foam product (except polystyrene) mfg | 217 656 | 40 068 | 177 588 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|---------------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 326 | Plastics & rubber products mfg—Con. | | | | |
| 3261 | Plastics product mfg—Con. | | | | |
| 32616 | Plastics bottle mfg | 575 616 | 57 412 | 518 204 | 5 |
| | 1998.. | 575 616 | 57 412 | 518 204 | X |
| | 1997.. | 454 167 | 34 935 | 419 232 | |
| 326160 | Plastics bottle mfg | 575 616 | 57 412 | 518 204 | 5 |
| | 1998.. | 575 616 | 34 935 | 419 232 | X |
| 32619 | Other plastics product mfg | 3 725 869 | 599 513 | 3 126 356 | 2 |
| | 1998.. | 3 579 624 | 492 969 | 3 086 655 | X |
| 326191 | Plastics plumbing fixture mfg | 43 495 | 4 831 | 38 664 | 8 |
| | 1998.. | 49 088 | 7 838 | 41 250 | X |
| 326192 | Resilient floor covering mfg | 74 152 | 6 413 | 67 738 | 1 |
| | 1998.. | 66 721 | 8 818 | 57 903 | X |
| 326199 | All other plastics product mfg | 3 608 222 | 588 268 | 3 019 954 | 2 |
| | 1998.. | 3 463 815 | 476 313 | 2 987 502 | X |
| 3262 | Rubber product mfg | 1 533 997 | 189 989 | 1 344 008 | 3 |
| | 1998.. | 1 391 375 | 166 798 | 1 224 577 | X |
| 32621 | Tire mfg | 726 325 | 73 687 | 652 637 | 3 |
| | 1998.. | 611 721 | 43 245 | 568 476 | X |
| 326211 | Tire mfg (except retreading) | 687 058 | 71 386 | 615 671 | 3 |
| | 1998.. | 587 232 | 40 863 | 546 369 | X |
| 326212 | Tire retreading | 39 267 | 2 301 | 36 966 | 21 |
| | 1997.. | 24 489 | 2 382 | 22 107 | X |
| 32622 | Rubber & plastics hoses & belting mfg | 158 552 | 23 054 | 135 498 | 11 |
| | 1998.. | 144 948 | 20 690 | 124 258 | X |
| 326220 | Rubber & plastics hoses & belting mfg | 158 552 | 23 054 | 135 498 | 11 |
| | 1997.. | 144 948 | 20 690 | 124 258 | X |
| 32629 | Other rubber product mfg | 649 121 | 93 248 | 555 872 | 6 |
| | 1998.. | 634 706 | 102 863 | 531 843 | X |
| 326291 | Rubber product mfg for mechanical use | 325 540 | 46 896 | 278 644 | 6 |
| | 1998.. | 347 251 | 53 456 | 293 795 | X |
| 326299 | All other rubber product mfg | 323 581 | 46 353 | 277 228 | 11 |
| | 1998.. | 287 455 | 49 407 | 238 048 | X |
| 327 | Nonmetallic mineral product mfg | 4 947 535 | 654 732 | 4 292 802 | 2 |
| | 1998.. | 4 835 153 | 649 235 | 4 185 918 | X |
| 3271 | Clay product & refractory mfg | 417 180 | 78 985 | 338 195 | 11 |
| | 1998.. | 419 660 | 74 162 | 345 498 | X |
| 32711 | Pottery, ceramics, & plumbing fixture mfg | 159 969 | 29 078 | 130 892 | 15 |
| | 1998.. | 159 419 | 29 034 | 130 385 | X |
| 327111 | Vitreous china plumbing fixture & bathroom accessories mfg | 22 173 | 1 987 | 20 186 | 1 |
| | 1998.. | 14 877 | 1 585 | 13 292 | X |
| 327112 | Vitreous china, fine earthenware, & other pottery product mfg | 71 705 | 16 436 | 55 269 | 12 |
| | 1997.. | 76 213 | 15 217 | 60 996 | X |
| 327113 | Porcelain electrical supply mfg | 66 091 | 10 654 | 55 436 | 34 |
| | 1998.. | 68 329 | 12 232 | 56 097 | X |
| 32712 | Clay building material & refractories mfg | 257 211 | 49 908 | 207 303 | 15 |
| | 1998.. | 260 241 | 45 128 | 215 113 | X |
| 327121 | Brick & structural clay tile mfg | 83 194 | 9 907 | 73 288 | 11 |
| | 1997.. | 71 338 | 10 338 | 61 000 | X |
| 327122 | Ceramic wall & floor tile mfg | 43 022 | 10 116 | 32 907 | 15 |
| | 1997.. | 62 029 | 9 314 | 52 715 | X |
| 327123 | Other structural clay product mfg | 8 592 | 738 | 7 854 | 69 |
| | 1997.. | 4 856 | 823 | 4 033 | X |
| 327124 | Clay refractory mfg | 25 572 | 2 919 | 22 653 | 18 |
| | 1997.. | 25 605 | 2 190 | 23 415 | X |
| 327125 | Nonclay refractory mfg | 96 831 | 26 229 | 70 602 | 37 |
| | 1997.. | 96 413 | 22 463 | 73 950 | X |
| 3272 | Glass & glass product mfg | 1 673 061 | 158 360 | 1 514 701 | 1 |
| | 1997.. | 1 642 974 | 237 096 | 1 405 878 | X |
| 32721 | Glass & glass product mfg | 1 673 061 | 158 360 | 1 514 701 | 1 |
| | 1998.. | 1 642 974 | 237 096 | 1 405 878 | X |
| 327211 | Flat glass mfg | 322 736 | 17 854 | 304 881 | 1 |
| | 1998.. | 176 690 | 20 141 | 156 549 | X |
| 327212 | Other pressed & blown glass & glassware mfg | 636 761 | 67 901 | 568 860 | 2 |
| | 1998.. | 628 784 | 75 590 | 553 194 | X |
| 327213 | Glass container mfg | 349 290 | D | D | 2 |
| | 1998.. | 283 023 | D | D | X |
| 327215 | Glass product mfg made of purchased glass ... | 364 275 | D | D | 5 |
| | 1997.. | 554 477 | D | D | X |
| 3273 | Cement & concrete product mfg | 1 903 996 | 287 084 | 1 616 912 | 3 |
| | 1997.. | 1 829 522 | 210 766 | 1 618 756 | X |
| 32731 | Cement mfg | 520 581 | 98 340 | 422 241 | 7 |
| | 1998.. | 506 015 | 35 285 | 470 730 | X |
| 327310 | Cement mfg | 520 581 | 98 340 | 422 241 | 7 |
| | 1998.. | 506 015 | 35 285 | 470 730 | X |
| 32732 | Ready-mix concrete mfg | 847 794 | 94 481 | 753 313 | 4 |
| | 1997.. | 818 496 | 85 108 | 733 388 | X |
| 327320 | Ready-mix concrete mfg | 847 794 | 94 481 | 753 313 | 4 |
| | 1998.. | 818 496 | 85 108 | 733 388 | X |
| 32733 | Concrete pipe, brick, & block mfg | 266 355 | 43 234 | 223 121 | 10 |
| | 1998.. | 232 654 | 41 980 | 190 674 | X |
| 327331 | Concrete block & brick mfg | 173 179 | 30 990 | 142 189 | 14 |
| | 1997.. | 150 906 | 27 269 | 123 637 | X |
| 327332 | Concrete pipe mfg | 93 176 | 12 244 | 80 931 | 13 |
| | 1998.. | 81 748 | 14 711 | 67 037 | X |
| 32739 | Other concrete product mfg | 269 266 | 51 029 | 218 237 | 7 |
| | 1998.. | 272 357 | 48 393 | 223 964 | X |
| 327390 | Other concrete product mfg | 269 266 | 51 029 | 218 237 | 7 |
| | 1997.. | 272 357 | 48 393 | 223 964 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|------------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 327 | Nonmetallic mineral product mfg—Con. | | | | |
| 3274 | Lime & gypsum product mfg | 228 218 | 23 920 | 204 298 | 16 |
| | 1998.. | 214 586 | 23 409 | 191 177 | X |
| | 1997.. | 60 081 | 4 118 | 55 964 | 36 |
| 32741 | Lime mfg | 59 562 | 4 932 | 54 630 | X |
| 327410 | Lime mfg | 1998.. | 60 081 | 4 118 | 36 |
| | 1997.. | 59 562 | 4 932 | 54 630 | X |
| 32742 | Gypsum product mfg | 168 137 | 19 802 | 148 335 | 17 |
| | 1998.. | 155 024 | 18 477 | 136 547 | X |
| 327420 | Gypsum product mfg | 1998.. | 168 137 | 19 802 | 148 335 |
| | 1997.. | 155 024 | 18 477 | 136 547 | X |
| 3279 | Other nonmetallic mineral product mfg | 725 079 | 106 383 | 618 696 | 4 |
| | 1998.. | 728 411 | 103 802 | 624 609 | X |
| 32791 | Abrasive product mfg | 163 224 | 27 320 | 135 904 | 11 |
| 327910 | Abrasive product mfg | 1998.. | 156 225 | 18 806 | X |
| | 1997.. | 163 224 | 27 320 | 135 904 | 11 |
| 32799 | All other nonmetallic mineral product mfg | 561 856 | 18 806 | 137 419 | X |
| | 1998.. | 572 186 | 79 063 | 482 792 | 4 |
| 327991 | Cut stone & stone product mfg | 42 399 | 84 996 | 487 190 | X |
| | 1998.. | 52 942 | 9 238 | 33 162 | 36 |
| 327992 | Ground or treated mineral & earth mfg | 144 045 | 8 423 | 44 519 | X |
| | 1998.. | 139 746 | 14 539 | 129 506 | 12 |
| 327993 | Mineral wool mfg | 285 755 | 18 759 | 120 987 | X |
| | 1998.. | 282 825 | 29 603 | 256 152 | 2 |
| 327999 | All other miscellaneous nonmetallic mineral product mfg | 89 657 | 42 233 | 240 592 | X |
| | 1998.. | 96 673 | 25 684 | 63 973 | 9 |
| | 1997.. | | 15 581 | 81 092 | X |
| 331 | Primary metal mfg | 6 615 771 | 939 068 | 5 676 702 | 1 |
| | 1998.. | 6 670 248 | 799 094 | 5 871 154 | X |
| 3311 | Iron & steel mills & ferroalloy mfg | 2 803 835 | 249 947 | 2 553 889 | 1 |
| | 1998.. | 2 836 031 | 215 599 | 2 620 432 | X |
| 33111 | Iron & steel mills & ferroalloy mfg | 2 803 835 | 249 947 | 2 553 889 | 1 |
| 331111 | Iron & steel mills | 2 836 031 | 215 599 | 2 620 432 | X |
| 331112 | Electrometallurgical ferroalloy product mfg | 2 766 347 | 243 065 | 2 517 236 | 1 |
| | 1998.. | 43 535 | 198 371 | 2 567 976 | X |
| | 1997.. | 69 684 | 6 882 | 36 653 | 1 |
| | | | 17 228 | 52 456 | X |
| 3312 | Steel product mfg from purchased steel | 542 436 | 93 136 | 449 299 | 6 |
| | 1998.. | 555 894 | 85 071 | 470 823 | X |
| 33121 | Iron & steel pipes & tubes mfg from purchased steel | 249 081 | 53 367 | 195 714 | 6 |
| | 1998.. | 221 786 | 32 564 | 189 222 | X |
| 331210 | Iron & steel pipes & tubes mfg from purchased steel | 249 081 | 53 367 | 195 714 | 6 |
| | 1997.. | 221 786 | 32 564 | 189 222 | X |
| 33122 | Rolling & drawing of purchased steel | 293 354 | 39 769 | 253 585 | 10 |
| 331221 | Cold-rolled steel shape mfg | 334 108 | 52 507 | 281 601 | X |
| 331222 | Steel wire drawing | 155 162 | 10 726 | 144 436 | 10 |
| | 1998.. | 140 043 | 14 699 | 125 344 | X |
| | 1997.. | 138 192 | 29 043 | 109 150 | 18 |
| | | 194 065 | 37 808 | 156 257 | X |
| 3313 | Alumina & aluminum production & processing | 1 065 263 | 299 867 | 765 396 | 2 |
| | 1998.. | 1 012 948 | 162 445 | 850 503 | X |
| 33131 | Alumina & aluminum production & processing | 1 065 263 | 299 867 | 765 396 | 2 |
| 331311 | Alumina refining | 1 012 948 | 162 445 | 850 503 | X |
| | 1998.. | 50 630 | D | D | 1 |
| | 1997.. | 96 963 | D | D | X |
| 331312 | Primary aluminum production | 384 940 | 96 601 | 288 339 | 1 |
| | 1998.. | 252 588 | 46 093 | 206 495 | X |
| 331314 | Secondary smelting & alloying of aluminum | 65 753 | 12 956 | 52 797 | 11 |
| | 1998.. | 90 275 | 27 723 | 62 552 | X |
| 331315 | Aluminum sheet, plate, & foil mfg | 317 860 | 104 723 | 213 137 | 1 |
| | 1997.. | 334 199 | 38 813 | 295 386 | X |
| 331316 | Aluminum extruded product mfg | 228 125 | 62 315 | 165 810 | 8 |
| | 1998.. | 208 984 | 33 370 | 175 614 | X |
| 331319 | Other aluminum rolling & drawing | 17 955 | D | D | 5 |
| | 1998.. | 29 939 | D | D | X |
| | 1997.. | | | | |
| 3314 | Nonferrous metal (except aluminum) production & processing | 897 623 | 139 302 | 758 321 | 4 |
| | 1998.. | 928 596 | 141 399 | 787 197 | X |
| 33141 | Nonferrous metal (except aluminum) smelting & refining | 326 848 | 40 813 | 286 035 | 2 |
| | 1998.. | 346 865 | 53 056 | 293 809 | X |
| 331411 | Primary smelting & refining of copper | 177 584 | 9 372 | 168 212 | 1 |
| 331419 | Other nonferrous metal primary smelting & refining | 184 604 | 12 665 | 171 939 | X |
| | 1998.. | 149 264 | 31 441 | 117 823 | 4 |
| | 1997.. | 162 261 | 40 391 | 121 870 | X |
| 33142 | Copper rolling, drawing, extruding, & alloying | 194 501 | 18 527 | 175 974 | 12 |
| 331421 | Copper rolling, drawing, & extruding | 210 675 | 21 939 | 188 736 | X |
| 331422 | Copper wire (except mechanical) drawing | 152 486 | 10 774 | 143 124 | 6 |
| | 1998.. | 54 514 | 9 362 | 49 482 | X |
| | 1997.. | 41 788 | 5 032 | 31 981 | 39 |
| 331423 | Secondary smelting, refining, & alloying of copper | 12 280 | 2 722 | 9 558 | 35 |
| | 1998.. | 16 401 | 2 770 | 13 631 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|-----------------------------------------------------------------------|------------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 331 | Primary metal mfg—Con. | | | | |
| 3314 | Nonferrous metal (except aluminum) production & processing—Con. | | | | |
| 33149 | Other nonferrous metal rolling, drawing, extruding, & alloying | 376 274 371 056 | 79 961 66 404 | 296 313 304 652 | 6 X |
| 331491 | Other nonferrous metal rolling, drawing, & extruding | 259 139 249 555 | 48 708 28 394 | 210 431 221 161 | 8 X |
| 331492 | Other nonferrous metal secondary smelting, refining, & alloying | 117 135 121 501 | 31 253 38 010 | 85 882 83 491 | 8 X |
| 3315 | Foundries | 1 306 613 1 336 779 | 156 816 194 580 | 1 149 798 1 142 199 | 6 X |
| 33151 | Ferrous metal foundries | 701 599 715 537 | 74 506 89 228 | 627 093 626 309 | 5 X |
| 331511 | Iron foundries | 519 788 511 665 | 47 775 54 960 | 472 012 456 705 | 5 X |
| 331512 | Steel investment foundries | 71 531 76 396 | 12 381 11 416 | 59 150 64 980 | 18 X |
| 331513 | Steel foundries (except investment) | 110 280 127 476 | 14 350 22 852 | 95 930 104 624 | 9 X |
| 33152 | Nonferrous metal foundries | 605 014 621 242 | 82 310 105 352 | 522 705 515 890 | 11 X |
| 331521 | Aluminum die-casting foundries | 229 320 232 244 | 35 987 43 364 | 193 334 188 880 | 14 X |
| 331522 | Nonferrous (except aluminum) die-casting foundries | 82 358 87 889 | 22 748 11 539 | 59 610 76 350 | 24 X |
| 331524 | Aluminum foundries (except die-casting) | 251 793 244 894 | 21 580 43 027 | 230 213 201 867 | 21 X |
| 331525 | Copper foundries (except die-casting) | 12 149 25 624 | 983 4 100 | 11 166 21 524 | 47 X |
| 331528 | Other nonferrous foundries (except die-casting) | 29 394 30 591 | 1 012 3 322 | 28 383 27 269 | 27 X |
| 332 | Fabricated metal product mfg | 9 810 344 9 648 749 | 1 443 672 1 358 522 | 8 366 672 8 290 227 | 2 X |
| 3321 | Forging & stamping | 1 005 000 1 093 604 | 176 912 167 996 | 828 089 925 608 | 5 X |
| 33211 | Forging & stamping | 1 005 000 1 093 604 | 176 912 167 996 | 828 089 925 608 | 5 X |
| 332111 | Iron & steel forging | 197 764 230 108 | 15 951 28 209 | 181 813 201 899 | 13 X |
| 332112 | Nonferrous forging | 51 488 126 844 | 20 433 21 640 | 31 055 105 204 | 1 X |
| 332114 | Custom roll forming | 50 292 60 512 | 10 705 9 529 | 39 587 50 983 | 17 X |
| 332115 | Crown & closure mfg | 51 207 51 255 | 8 429 3 833 | 42 778 47 422 | 5 X |
| 332116 | Metal stamping | 577 626 543 908 | 109 999 94 557 | 467 627 449 351 | 8 X |
| 332117 | Powder metallurgy part mfg | 76 623 80 977 | 11 395 10 228 | 65 228 70 749 | 7 X |
| 3322 | Cutlery & handtool mfg | 660 386 545 039 | 42 626 47 292 | 617 759 497 747 | 7 X |
| 33221 | Cutlery & handtool mfg | 660 386 545 039 | 42 626 47 292 | 617 759 497 747 | 7 X |
| 332211 | Cutlery & flatware (except precious) mfg | 298 917 215 638 | 8 505 6 544 | 290 412 209 094 | 5 X |
| 332212 | Hand & edge tool mfg | 253 522 233 151 | 25 484 30 498 | 228 038 202 653 | 16 X |
| 332213 | Saw blade & handsaw mfg | 76 427 67 237 | 3 820 6 706 | 72 608 60 531 | 31 X |
| 332214 | Kitchen utensil, pot, & pan mfg | 31 518 29 013 | 4 817 3 544 | 26 701 25 469 | 19 X |
| 3323 | Architectural & structural metals mfg | 1 417 339 1 276 662 | 264 771 252 728 | 1 152 568 1 023 934 | 5 X |
| 33231 | Plate work & fabricated structural product mfg | 461 235 439 746 | 90 532 101 542 | 370 703 338 204 | 5 X |
| 332311 | Prefabricated metal building & component mfg | 89 570 62 007 | 14 535 13 614 | 75 034 48 393 | 16 X |
| 332312 | Fabricated structural metal mfg | 293 271 298 665 | 63 528 72 087 | 229 743 226 578 | 5 X |
| 332313 | Plate work mfg | 78 394 79 074 | 12 468 15 841 | 65 926 63 233 | 14 X |
| 33232 | Ornamental & architectural metal products mfg .. | 956 104 836 916 | 174 239 151 186 | 781 865 685 730 | 6 X |
| 332321 | Metal window & door mfg | 267 858 189 502 | 48 463 40 912 | 219 395 148 590 | 16 X |
| 332322 | Sheet metal work mfg | 562 430 548 037 | 105 630 95 345 | 456 799 452 692 | 7 X |
| 332323 | Ornamental & architectural metal work mfg .. | 125 817 99 377 | 20 146 14 929 | 105 671 84 448 | 11 X |
| 3324 | Boiler, tank, & shipping container mfg | 590 685 589 211 | 85 738 80 178 | 504 946 509 033 | 7 X |
| 33241 | Power boiler & heat exchanger mfg | 119 928 100 507 | 29 746 18 488 | 90 182 82 019 | 29 X |
| 332410 | Power boiler & heat exchanger mfg | 119 928 100 507 | 29 746 18 488 | 90 182 82 019 | 29 X |
| 33242 | Metal tank (heavy gauge) mfg | 123 758 122 927 | 24 947 27 677 | 98 811 95 250 | 12 X |
| 332420 | Metal tank (heavy gauge) mfg | 123 758 122 927 | 24 947 27 677 | 98 811 95 250 | 12 X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— | |
|------------|------------------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|----|
| | | A | B | C | | |
| 332 | Fabricated metal product mfg—Con. | | | | | |
| 3324 | Boiler, tank, & shipping container mfg—Con. | | | | | |
| 33243 | Metal can, box, & other metal container (light gauge) mfg | 1998.. | 346 999 | 31 045 | 315 954 | 5 |
| | | 1997.. | 365 777 | 34 013 | 331 764 | X |
| 332431 | Metal can mfg | 1998.. | 265 866 | 18 184 | 247 682 | 1 |
| 332439 | Other metal container mfg | 1998.. | 306 014 | 22 769 | 283 245 | X |
| | | 1997.. | 81 133 | 12 861 | 68 272 | 20 |
| | | | 59 763 | 11 244 | 48 519 | X |
| 3325 | Hardware mfg..... | 1998.. | 344 913 | 27 318 | 317 595 | 5 |
| 33251 | Hardware mfg..... | 1997.. | 382 279 | 52 291 | 329 988 | X |
| 332510 | Hardware mfg..... | 1998.. | 344 913 | 27 318 | 317 595 | 5 |
| | | 1997.. | 382 279 | 52 291 | 329 988 | X |
| 3326 | Spring & wire product mfg | 1998.. | 368 275 | 57 449 | 310 827 | 10 |
| 33261 | Spring & wire product mfg | 1998.. | 345 838 | 63 948 | 281 890 | X |
| | | 1997.. | 368 275 | 57 449 | 310 827 | 10 |
| 332611 | Spring (heavy gauge) mfg | 1998.. | 345 838 | 63 948 | 281 890 | X |
| | | 1997.. | 36 801 | 8 095 | 28 706 | 48 |
| 332612 | Spring (light gauge) mfg | 1998.. | 49 756 | 10 330 | 39 426 | X |
| | | 1997.. | 163 321 | 22 160 | 141 161 | 15 |
| 332618 | Other fabricated wire product mfg | 1998.. | 109 228 | 16 221 | 93 007 | X |
| | | 1997.. | 168 153 | 27 194 | 140 959 | 13 |
| | | | 186 854 | 37 397 | 149 457 | X |
| 3327 | Machine shops, turned product, & screw, nut, & bolt mfg | 1998.. | 2 657 900 | 344 895 | 2 313 005 | 5 |
| | | 1997.. | 2 531 666 | 289 614 | 2 242 052 | X |
| 33271 | Machine shops | 1998.. | 1 642 105 | 209 718 | 1 432 387 | 7 |
| 332710 | Machine shops | 1998.. | 1 558 235 | 178 967 | 1 379 268 | X |
| | | 1997.. | 1 642 105 | 209 718 | 1 432 387 | 7 |
| 33272 | Turned product & screw, nut, & bolt mfg | 1998.. | 1 015 795 | 135 177 | 1 379 268 | X |
| | | 1997.. | 973 431 | 110 647 | 880 619 | 7 |
| 332721 | Precision turned product mfg | 1998.. | 621 538 | 98 825 | 862 784 | X |
| | | 1997.. | 577 245 | 68 461 | 522 713 | 12 |
| 332722 | Bolt, nut, screw, rivet, & washer mfg | 1998.. | 394 258 | 36 352 | 357 906 | X |
| | | 1997.. | 396 186 | 42 186 | 354 000 | 6 |
| 3328 | Coating, engraving, heat treating, & allied activities | 1998.. | 963 827 | 168 898 | 794 929 | 6 |
| | | 1997.. | 1 130 454 | 175 341 | 955 113 | X |
| 33281 | Coating, engraving, heat treating, & allied activities | 1998.. | 963 827 | 168 898 | 794 929 | 6 |
| | | 1997.. | 1 130 454 | 175 341 | 955 113 | X |
| 332811 | Metal heat treating | 1998.. | 253 676 | 26 371 | 227 305 | 17 |
| 332812 | Metal coating/engraving (exc jewelry/silverware)/allied services | 1998.. | 292 261 | 39 216 | 253 045 | X |
| 332813 | Electroplating, plating, polishing, anodizing, & coloring | 1998.. | 397 766 | 90 849 | 306 918 | 5 |
| | | 1997.. | 543 644 | 77 601 | 466 043 | X |
| | | | 312 385 | 51 678 | 260 706 | 11 |
| | | | 294 549 | 58 524 | 236 025 | X |
| 3329 | Other fabricated metal product mfg | 1998.. | 1 802 019 | 275 066 | 1 526 954 | 3 |
| 33291 | Metal valve mfg | 1998.. | 1 753 996 | 229 134 | 1 524 862 | X |
| | | 1997.. | 780 748 | 145 394 | 635 354 | 6 |
| 332911 | Industrial valve mfg | 1998.. | 739 806 | 101 765 | 638 041 | X |
| | | 1997.. | 358 017 | 67 156 | 290 860 | 10 |
| 332912 | Fluid power valve & hose fitting mfg | 1998.. | 308 157 | 40 054 | 268 103 | X |
| | | 1997.. | 240 238 | 44 315 | 195 924 | 12 |
| 332913 | Plumbing fixture fitting & trim mfg | 1998.. | 237 376 | 34 211 | 203 165 | X |
| | | 1997.. | 79 376 | 6 941 | 72 434 | 28 |
| 332919 | Other metal valve & pipe fitting mfg | 1998.. | 85 463 | 7 220 | 79 243 | X |
| | | 1997.. | 103 117 | 26 982 | 76 135 | 9 |
| | | | 108 810 | 20 280 | 88 530 | X |
| 33299 | All other fabricated metal product mfg | 1998.. | 1 021 271 | 129 672 | 891 600 | 3 |
| 332991 | Ball & roller bearing mfg | 1998.. | 1 014 190 | 127 369 | 886 821 | X |
| | | 1997.. | 323 974 | 40 078 | 283 896 | 5 |
| 332992 | Small arms ammunition mfg | 1998.. | 309 041 | 35 669 | 273 372 | X |
| | | 1997.. | 19 838 | 2 321 | 17 517 | 1 |
| 332993 | Ammunition (except small arms) mfg | 1998.. | 26 180 | 2 569 | 23 611 | X |
| | | 1997.. | 30 230 | 5 306 | 24 924 | 4 |
| 332994 | Small arms mfg | 1998.. | 28 529 | 3 532 | 24 997 | X |
| | | 1997.. | 34 080 | 2 011 | 32 069 | 19 |
| 332995 | Other ordnance & accessories mfg | 1998.. | 32 686 | 3 079 | 29 607 | X |
| | | 1997.. | 19 409 | 3 213 | 16 197 | 7 |
| 332996 | Fabricated pipe & pipe fitting mfg | 1998.. | 18 035 | 2 238 | 15 797 | X |
| | | 1997.. | 158 040 | 24 744 | 133 296 | 8 |
| 332997 | Industrial pattern mfg | 1998.. | 157 489 | 25 679 | 131 810 | X |
| | | 1997.. | 34 354 | 5 227 | 29 127 | 21 |
| 332998 | Enameling iron & metal sanitary ware mfg | 1998.. | 35 660 | 3 407 | 32 253 | X |
| | | 1997.. | 40 026 | 3 317 | 36 709 | 1 |
| 332999 | All other miscellaneous fabricated metal product mfg | 1998.. | 54 210 | 4 063 | 50 147 | X |
| | | 1997.. | 361 319 | 43 455 | 317 864 | 7 |
| | | | 352 360 | 47 133 | 305 227 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|----------------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 333 | Machinery mfg | 10 134 154 | 1 714 153 | 8 420 001 | 3 |
| | 1997.. | 8 850 246 | 1 665 564 | 7 184 682 | X |
| 3331 | Agriculture, construction, & mining machinery mfg .. | 1 562 437 | 296 031 | 1 266 406 | 5 |
| | 1997.. | 1 476 668 | 258 320 | 1 218 348 | X |
| 33311 | Agricultural implement mfg | 764 552 | 142 938 | 621 614 | 9 |
| | 1997.. | 694 682 | 114 289 | 580 393 | X |
| 333111 | Farm machinery & equipment mfg | 529 067 | 73 389 | 455 678 | 8 |
| | 1997.. | 508 933 | 88 904 | 420 029 | X |
| 333112 | Lawn & garden tractor & home lawn & garden equipment mfg | 235 485 | 69 549 | 165 936 | 24 |
| | 1997.. | 185 749 | 25 385 | 160 364 | X |
| 33312 | Construction machinery mfg | 559 789 | 108 424 | 451 366 | 4 |
| | 1997.. | 489 373 | 108 279 | 381 094 | X |
| 333120 | Construction machinery mfg | 559 789 | 108 424 | 451 366 | 4 |
| | 1997.. | 489 373 | 108 279 | 381 094 | X |
| 33313 | Mining & oil & gas field machinery mfg | 238 096 | 44 669 | 193 427 | 5 |
| | 1997.. | 292 613 | 35 752 | 256 861 | X |
| 333131 | Mining machinery & equipment mfg | 42 371 | 6 633 | 35 738 | 6 |
| | 1997.. | 63 084 | 11 478 | 51 606 | X |
| 333132 | Oil & gas field machinery & equipment mfg | 195 725 | 38 037 | 157 688 | 6 |
| | 1997.. | 229 529 | 24 274 | 205 255 | X |
| 3332 | Industrial machinery mfg | 1 484 550 | 445 932 | 1 038 618 | 7 |
| | 1997.. | 1 434 154 | 380 455 | 1 053 699 | X |
| 33321 | Sawmill & woodworking machinery mfg | 34 769 | 3 424 | 31 346 | 19 |
| | 1997.. | 18 351 | 2 443 | 15 908 | X |
| 333210 | Sawmill & woodworking machinery mfg | 34 769 | 3 424 | 31 346 | 19 |
| | 1997.. | 18 351 | 2 443 | 15 908 | X |
| 33322 | Plastics & rubber industry machinery mfg | 96 034 | 14 165 | 81 869 | 22 |
| | 1997.. | 93 179 | 19 860 | 73 319 | X |
| 333220 | Plastics & rubber industry machinery mfg | 96 034 | 14 165 | 81 869 | 22 |
| | 1997.. | 93 179 | 19 860 | 73 319 | X |
| 33329 | Other industrial machinery mfg | 1 353 747 | 428 343 | 925 404 | 7 |
| | 1997.. | 1 322 624 | 358 152 | 964 472 | X |
| 333291 | Paper industry machinery mfg | 82 773 | 22 059 | 60 714 | 7 |
| | 1997.. | 93 563 | 15 772 | 77 791 | X |
| 333292 | Textile machinery mfg | 46 535 | 4 115 | 42 420 | 17 |
| | 1997.. | 55 222 | 6 066 | 49 156 | X |
| 333293 | Printing machinery & equipment mfg | 90 823 | 13 895 | 76 928 | 12 |
| | 1997.. | 92 387 | 16 568 | 75 819 | X |
| 333294 | Food product machinery mfg | 70 708 | 12 588 | 58 120 | 19 |
| | 1997.. | 80 022 | 18 939 | 61 083 | X |
| 333295 | Semiconductor machinery mfg | 829 859 | 318 908 | 510 951 | 11 |
| | 1997.. | 683 608 | 238 567 | 445 041 | X |
| 333298 | All other industrial machinery mfg | 233 048 | 56 778 | 176 270 | 16 |
| | 1997.. | 317 822 | 62 240 | 255 582 | X |
| 3333 | Commercial & service industry machinery mfg | 902 313 | 214 465 | 687 847 | 6 |
| | 1997.. | 860 767 | 167 205 | 693 562 | X |
| 33331 | Commercial & service industry machinery mfg | 902 313 | 214 465 | 687 847 | 6 |
| | 1997.. | 860 767 | 167 205 | 693 562 | X |
| 333311 | Automatic vending machine mfg | 27 645 | 3 591 | 24 053 | 4 |
| | 1997.. | 31 885 | 7 438 | 24 447 | X |
| 333312 | Commercial laundry, drycleaning, & pressing machine mfg | 109 545 | 22 363 | 87 182 | 1 |
| | 1997.. | 4 212 | 282 | 3 930 | X |
| 333313 | Office machinery mfg | 71 423 | 13 100 | 58 322 | 11 |
| | 1997.. | 114 530 | 16 352 | 98 178 | X |
| 333314 | Optical instrument & lens mfg | 182 562 | 41 767 | 140 795 | 6 |
| | 1997.. | 176 049 | 26 197 | 149 852 | X |
| 333315 | Photographic & photocopying equipment mfg | 247 485 | 61 182 | 186 302 | 20 |
| | 1997.. | 288 784 | 57 747 | 231 037 | X |
| 333319 | Other commercial & service industry machinery mfg | 263 654 | 72 462 | 191 193 | 8 |
| | 1997.. | 245 307 | 59 189 | 186 118 | X |
| 3334 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 1 428 081 | 127 521 | 1 300 560 | 3 |
| | 1997.. | 780 945 | 146 182 | 634 763 | X |
| 33341 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 1 428 081 | 127 521 | 1 300 560 | 3 |
| | 1997.. | 780 945 | 146 182 | 634 763 | X |
| 333411 | Air purification equipment mfg | 87 542 | 30 841 | 56 700 | 41 |
| | 1997.. | 70 105 | 18 638 | 51 467 | X |
| 333412 | Industrial & commercial fan & blower mfg | 49 783 | 9 375 | 40 408 | 16 |
| | 1997.. | 55 006 | 13 405 | 41 601 | X |
| 333414 | Heating equipment (except warm air furnaces) mfg | 234 268 | 25 283 | 208 985 | 9 |
| | 1997.. | 89 555 | 20 412 | 69 143 | X |
| 333415 | AC & warm air heating & commercial/industrial refrig equip mfg | 1 056 488 | 62 021 | 994 467 | 2 |
| | 1997.. | 566 279 | 93 727 | 472 552 | X |
| 3335 | Metalworking machinery mfg | 1 758 875 | 220 302 | 1 538 573 | 16 |
| | 1997.. | 1 468 611 | 229 085 | 1 239 526 | X |
| 33351 | Metalworking machinery mfg | 1 758 875 | 220 302 | 1 538 573 | 16 |
| | 1997.. | 1 468 611 | 229 085 | 1 239 526 | X |
| 333511 | Industrial mold mfg | 365 946 | 31 975 | 333 971 | 14 |
| | 1997.. | 360 314 | 37 977 | 322 337 | X |
| 333512 | Machine tool (metal cutting types) mfg | 418 610 | 23 879 | 394 730 | 65 |
| | 1997.. | 141 241 | 46 336 | 94 905 | X |
| 333513 | Machine tool (metal forming types) mfg | 93 762 | 40 983 | 52 779 | 10 |
| | 1997.. | 92 077 | 29 854 | 62 223 | X |
| 333514 | Special die & tool, die set, jig, & fixture mfg | 497 310 | 70 924 | 426 386 | 6 |
| | 1997.. | 501 010 | 64 470 | 436 540 | X |
| 333515 | Cutting tool & machine tool accessory mfg | 293 031 | 31 936 | 261 096 | 10 |
| | 1997.. | 276 759 | 30 453 | 246 306 | X |
| 333516 | Rolling mill machinery & equipment mfg | 13 676 | 1 562 | 12 114 | 20 |
| | 1997.. | 17 278 | 2 236 | 15 042 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|-----------------------------------------------------------------------|----------------------------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | A |
| 333 | Machinery mfg—Con. | | | | |
| 3335 | Metalworking machinery mfg—Con. | | | | |
| 33351 | Metalworking machinery mfg—Con. | | | | |
| 333518 | Other metalworking machinery mfg | 1998.. 76 541 1997.. 79 932 | 19 043 17 759 | 57 497 62 173 | 12 X |
| 3336 | Engine, turbine, & power transmission equipment mfg | 1998.. 1 184 899 1997.. 1 055 565 | 89 227 146 563 | 1 095 672 909 002 | 1 X |
| 33361 | Engine, turbine, & power transmission equipment mfg | 1998.. 1 184 899 1997.. 1 055 565 | 89 227 146 563 | 1 095 672 909 002 | 1 X |
| 333611 | Turbine & turbine generator set unit mfg | 1998.. 300 278 1997.. 177 434 | 27 722 16 832 | 272 556 160 602 | 2 X |
| 333612 | Speed changer, industrial high-speed drive, & gear mfg | 1998.. 87 125 1997.. 116 810 | 10 473 14 751 | 76 652 102 059 | 10 X |
| 333613 | Mechanical power transmission equipment mfg | 1998.. 118 661 1997.. 133 395 | 11 650 22 340 | 107 011 111 055 | 5 X |
| 333618 | Other engine equipment mfg | 1998.. 678 835 1997.. 627 926 | 39 382 92 640 | 639 454 535 286 | 1 X |
| 3339 | Other general-purpose machinery mfg | 1998.. 1 812 999 1997.. 1 773 536 | 320 676 337 754 | 1 492 323 1 435 782 | 4 X |
| 33391 | Pump & compressor mfg | 1998.. 452 602 1997.. 393 246 | 67 719 58 705 | 384 883 334 541 | 12 X |
| 333911 | Pump & pumping equipment mfg | 1998.. 232 235 1997.. 189 875 | 34 229 18 911 | 198 006 170 964 | 7 X |
| 333912 | Air & gas compressor mfg | 1998.. 191 124 1997.. 170 679 | 30 589 37 570 | 160 534 133 109 | 28 X |
| 333913 | Measuring & dispensing pump mfg | 1998.. 29 243 1997.. 32 692 | 2 901 2 224 | 26 343 30 468 | 9 X |
| 33392 | Material handling equipment mfg | 1998.. 339 944 1997.. 416 139 | 73 511 119 166 | 266 433 296 973 | 6 X |
| 333921 | Elevator & moving stairway mfg | 1998.. 47 719 1997.. 40 247 | 15 290 9 778 | 32 429 30 469 | 6 X |
| 333922 | Conveyor & conveying equipment mfg | 1998.. 124 778 1997.. 150 056 | 28 006 44 940 | 96 772 105 116 | 13 X |
| 333923 | Overhead traveling crane, hoist, & monorail system mfg | 1998.. 61 517 1997.. 85 938 | 7 993 27 294 | 53 525 58 644 | 5 X |
| 333924 | Industrial truck, tractor, trailer, & stacker machinery mfg | 1998.. 105 930 1997.. 139 888 | 22 222 37 154 | 83 708 102 744 | 9 X |
| 33399 | All other general-purpose machinery mfg | 1998.. 1 020 453 1997.. 964 151 | 179 446 159 883 | 841 007 804 268 | 4 X |
| 333991 | Power-driven handtool mfg | 1998.. 103 263 1997.. 129 232 | 13 307 18 484 | 89 957 110 748 | 1 X |
| 333992 | Welding & soldering equipment mfg | 1998.. 94 672 1997.. 122 871 | 16 724 23 279 | 77 948 99 592 | 3 X |
| 333993 | Packaging machinery mfg | 1998.. 117 333 1997.. 123 207 | 29 113 23 085 | 88 220 100 122 | 12 X |
| 333994 | Industrial process furnace & oven mfg | 1998.. 56 089 1997.. 65 635 | 10 504 17 230 | 45 585 48 405 | 18 X |
| 333995 | Fluid power cylinder & actuator mfg | 1998.. 155 864 1997.. 113 086 | 31 059 10 114 | 124 805 102 972 | 20 X |
| 333996 | Fluid power pump & motor mfg | 1998.. 145 325 1997.. 111 085 | 11 272 20 695 | 134 053 90 390 | 12 X |
| 333997 | Scale & balance (except laboratory) mfg | 1998.. 29 109 1997.. 10 840 | 8 218 1 417 | 20 891 9 423 | 36 X |
| 333999 | All other miscellaneous general-purpose machinery mfg | 1998.. 318 798 1997.. 288 195 | 59 250 45 579 | 259 548 242 616 | 4 X |
| 334 | Computer & electronic product mfg | 1998.. 21 233 534 1997.. 24 571 877 | 4 067 479 4 272 478 | 17 166 055 20 299 399 | 2 X |
| 3341 | Computer & peripheral equipment mfg | 1998.. 3 334 542 1997.. 3 283 703 | 535 809 425 986 | 2 798 732 2 857 717 | 1 X |
| 33411 | Computer & peripheral equipment mfg | 1998.. 3 334 542 1997.. 3 283 703 | 535 809 425 986 | 2 798 732 2 857 717 | 1 X |
| 334111 | Electronic computer mfg | 1998.. 768 181 1997.. 1 053 036 | 246 046 128 995 | 522 135 924 041 | 1 X |
| 334112 | Computer storage device mfg | 1998.. 1 118 529 1997.. 1 219 725 | 145 408 157 264 | 973 121 1 062 461 | 1 X |
| 334113 | Computer terminal mfg | 1998.. 30 789 1997.. 34 716 | 2 536 6 287 | 28 253 28 429 | 14 X |
| 334119 | Other computer peripheral equipment mfg | 1998.. 1 417 043 1997.. 976 226 | 141 820 133 440 | 1 275 223 842 786 | 3 X |
| 3342 | Communications equipment mfg | 1998.. 3 105 971 1997.. 3 095 626 | 708 463 541 238 | 2 397 508 2 554 388 | 8 X |
| 33421 | Telephone apparatus mfg | 1998.. 1 166 817 1997.. 1 098 619 | 403 911 179 439 | 762 907 919 180 | 1 X |
| 334210 | Telephone apparatus mfg | 1998.. 1 166 817 1997.. 1 098 619 | 403 911 179 439 | 762 907 919 180 | 1 X |
| 33422 | Radio & TV broadcasting & wireless communications equipment mfg | 1998.. 1 716 954 1997.. 1 847 125 | 283 141 328 893 | 1 433 813 1 518 232 | 15 X |
| 334220 | Radio & TV broadcasting & wireless communications equipment mfg | 1998.. 1 716 954 1997.. 1 847 125 | 283 141 328 893 | 1 433 813 1 518 232 | 15 X |
| 33429 | Other communications equipment mfg | 1998.. 222 200 1997.. 149 882 | 21 411 32 906 | 200 789 116 976 | 6 X |
| 334290 | Other communications equipment mfg | 1998.. 222 200 1997.. 149 882 | 21 411 32 906 | 200 789 116 976 | 6 X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|-------------------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------|
| | | A | B | C | |
| 334 | Computer & electronic product mfg—Con. | | | | |
| 3343 | Audio & video equipment mfg | 177 966 | 35 440 | 142 526 | 6 |
| | 1998.. | 205 373 | 56 352 | 149 021 | X |
| 33431 | 1997.. | 177 966 | 35 440 | 142 526 | 6 |
| | Audio & video equipment mfg | 205 373 | 56 352 | 149 021 | X |
| 334310 | 1998.. | 177 966 | 35 440 | 142 526 | 6 |
| | 1997.. | 205 373 | 56 352 | 149 021 | X |
| 3344 | Semiconductor & other electronic component mfg .. | 10 477 883 | 2 051 255 | 8 426 628 | 2 |
| | 1998.. | 14 089 385 | 2 533 290 | 11 556 095 | X |
| 33441 | Semiconductor & other electronic component mfg | 10 477 883 | 2 051 255 | 8 426 628 | 2 |
| | 1998.. | 14 089 385 | 2 533 290 | 11 556 095 | X |
| 334411 | 1997.. | 123 918 | 13 236 | 110 682 | 3 |
| 334412 | Electron tube mfg | 161 056 | 48 958 | 112 098 | X |
| | 1998.. | 703 484 | 96 373 | 607 112 | 16 |
| 334413 | Bare printed circuit board mfg | 693 121 | 132 835 | 560 286 | X |
| | 1997.. | 7 917 415 | 1 686 993 | 6 230 422 | 2 |
| 334414 | Semiconductor & related device mfg | 11 557 382 | 2 131 751 | 9 425 631 | X |
| | 1998.. | 153 020 | 14 900 | 138 120 | 12 |
| 334415 | 1997.. | 124 096 | 17 099 | 106 997 | X |
| 334416 | Electronic capacitor mfg | 57 746 | 5 017 | 52 729 | 10 |
| | 1998.. | 56 012 | 6 936 | 49 076 | X |
| 334417 | Electronic resistor mfg | 37 038 | 13 632 | 41 020 | 12 |
| | 1997.. | 315 517 | 5 951 | 31 087 | X |
| 334418 | Electronic coil, transformer, & other inductor mfg | 234 071 | 47 815 | 267 702 | 9 |
| | 1998.. | 23 754 | 210 317 | | X |
| 334419 | Electronic connector mfg | 809 862 | 135 544 | 674 318 | 13 |
| | 1997.. | 795 997 | 113 779 | 682 218 | X |
| 3345 | Printed circuit assembly (electronic assembly) mfg | 342 270 | 37 746 | 304 524 | 3 |
| | 1998.. | 430 612 | 52 227 | 378 385 | X |
| 3345 | Navigational, measuring, medical, & control instruments mfg | 3 311 297 | 630 710 | 2 680 587 | 4 |
| | 1998.. | 3 014 597 | 578 759 | 2 435 838 | X |
| 33451 | 1997.. | | | | |
| 334510 | Navigational, measuring, medical, & control instruments mfg | 3 311 297 | 630 710 | 2 680 587 | 4 |
| | 1998.. | 3 014 597 | 578 759 | 2 435 838 | X |
| 334511 | Electromedical & electrotherapeutic apparatus mfg | 456 918 | 89 153 | 367 765 | 13 |
| | 1998.. | 433 609 | 78 618 | 354 991 | X |
| 334512 | Search, detection, navigation, & guidance instrument mfg | 1 100 895 | 203 388 | 897 508 | 10 |
| | 1997.. | 1 014 264 | 186 214 | 828 050 | X |
| 334513 | Automatic environmental control mfg | 113 095 | 12 517 | 100 578 | 7 |
| | 1998.. | 114 952 | 11 523 | 103 429 | X |
| 334514 | Industrial process control instrument mfg | 279 260 | 41 476 | 237 784 | 8 |
| | 1997.. | 214 386 | 34 265 | 180 121 | X |
| 334515 | Totalizing fluid meter & counting device mfg | 131 218 | 13 072 | 118 146 | 6 |
| | 1998.. | 116 073 | 10 945 | 105 128 | X |
| 334516 | Electricity measuring & testing instrument mfg | 652 628 | 161 815 | 490 813 | 4 |
| | 1997.. | 674 182 | 174 972 | 499 210 | X |
| 334517 | Analytical laboratory instrument mfg | 315 524 | 62 969 | 252 555 | 3 |
| | 1998.. | 203 585 | 44 122 | 159 463 | X |
| 334518 | Irradiation apparatus mfg | 68 413 | 4 891 | 63 522 | 1 |
| | 1998.. | 75 942 | 8 710 | 67 232 | X |
| 334519 | Watch, clock, & part mfg | 31 014 | 7 580 | 23 434 | 12 |
| | 1998.. | 26 215 | 4 792 | 21 423 | X |
| 3346 | Other measuring & controlling device mfg | 162 332 | 33 850 | 128 481 | 7 |
| | 1997.. | 141 389 | 24 598 | 116 791 | X |
| 3346 | Mfg & reproducing magnetic & optical media | 825 876 | 105 803 | 720 073 | 5 |
| | 1998.. | 883 193 | 136 853 | 746 340 | X |
| 33461 | 1997.. | | | | |
| 334611 | Mfg & reproducing magnetic & optical media | 825 876 | 105 803 | 720 073 | 5 |
| | 1998.. | 883 193 | 136 853 | 746 340 | X |
| 334611 | Software reproducing | 76 652 | 12 362 | 64 289 | 35 |
| | 1997.. | 140 935 | 13 670 | 127 265 | X |
| 334612 | Prerecorded CD (except software), tape, & record reproducing | 407 462 | 46 041 | 361 421 | 7 |
| | 1998.. | 294 773 | 42 403 | 252 370 | X |
| 334613 | 1997.. | | | | |
| 334613 | Magnetic & optical recording media mfg | 341 763 | 47 400 | 294 363 | 3 |
| | 1998.. | 447 485 | 80 780 | 366 705 | X |
| 335 | Electrical equipment, appliance, & component mfg | 4 246 767 | 790 992 | 3 455 775 | 4 |
| | 1998.. | 3 584 385 | 645 565 | 2 938 820 | X |
| 3351 | Electric lighting equipment mfg | 393 604 | 51 310 | 342 294 | 10 |
| | 1997.. | 406 682 | 75 014 | 331 668 | X |
| 33511 | Electric lamp bulb & part mfg | 144 529 | 3 357 | 141 172 | 5 |
| | 1998.. | 173 922 | 17 354 | 156 568 | X |
| 335110 | Electric lamp bulb & part mfg | 144 529 | 3 357 | 141 172 | 5 |
| | 1997.. | 173 922 | 17 354 | 156 568 | X |
| 33512 | Lighting fixture mfg | 249 075 | 47 953 | 201 122 | 16 |
| | 1998.. | 232 760 | 57 660 | 175 100 | X |
| 335121 | Residential electric lighting fixture mfg | 105 459 | 15 325 | 90 134 | 33 |
| | 1997.. | 59 451 | 10 661 | 48 790 | X |
| 335122 | Commercial/industrial/institutional electric lighting fixture mfg | 55 843 | 8 086 | 47 757 | 7 |
| | 1998.. | 96 023 | 32 933 | 63 090 | X |
| 335129 | 1997.. | | | | |
| 335129 | Other lighting equipment mfg | 87 773 | 24 541 | 63 232 | 23 |
| | 1998.. | 77 286 | 14 066 | 63 220 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

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| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|--------------------------------------------------------------------|-------------------|------------------------------------------|-----------------------------------|------------------------------------------------------------------------|
| | | A | B | C | A |
| 335 | Electrical equipment, appliance, & component mfg—Con. | | | | |
| 3352 | Household appliance mfg | 1998.. 765 078 | 136 481 | 628 597 | 12 |
| | 1997.. 502 198 | 63 478 | 438 720 | X | |
| 33521 | Small electrical appliance mfg | 1998.. 172 600 | 8 403 | 164 198 | 27 |
| | 1997.. 171 457 | 30 484 | 140 973 | X | |
| 335211 | Electric housewares & household fan mfg | 1998.. 93 139 | 3 587 | 89 552 | 50 |
| | 1997.. 85 862 | 5 923 | 79 939 | X | |
| 335212 | Household vacuum cleaner mfg | 1998.. 79 462 | 4 816 | 74 646 | 3 |
| | 1997.. 85 595 | 24 561 | 61 034 | X | |
| 33522 | Major appliance mfg | 1998.. 592 478 | 128 078 | 464 400 | 13 |
| | 1997.. 330 741 | 32 994 | 297 747 | X | |
| 335221 | Household cooking appliance mfg | 1998.. 209 386 | 37 374 | 172 013 | 36 |
| | 1997.. 135 686 | 21 886 | 113 800 | X | |
| 335222 | Household refrigerator & home freezer mfg | 1998.. 118 152 | 7 587 | 110 565 | 3 |
| | 1997.. 92 679 | 5 121 | 87 558 | X | |
| 335224 | Household laundry equipment mfg | 1998.. 87 072 | 5 140 | 81 932 | 2 |
| | 1997.. 37 355 | 2 901 | 34 454 | X | |
| 335228 | Other major household appliance mfg | 1998.. 177 868 | 77 977 | 99 891 | 1 |
| | 1997.. 65 021 | 3 086 | 61 935 | X | |
| 3353 | Electrical equipment mfg | 1998.. 1 282 795 | 254 122 | 1 028 672 | 11 |
| | 1997.. 981 125 | 176 878 | 804 247 | X | |
| 33531 | Electrical equipment mfg | 1998.. 1 282 795 | 254 122 | 1 028 672 | 11 |
| | 1997.. 981 125 | 176 878 | 804 247 | X | |
| 335311 | Power, distribution, & specialty transformer mfg | 1998.. 176 204 | 26 226 | 149 979 | 36 |
| | 1997.. 132 060 | 31 078 | 100 982 | X | |
| 335312 | Motor & generator mfg | 1998.. 432 124 | 37 632 | 394 492 | 15 |
| | 1997.. 312 116 | 36 351 | 275 765 | X | |
| 335313 | Switchgear & switchboard apparatus mfg | 1998.. 209 396 | 19 980 | 189 417 | 2 |
| | 1997.. 196 543 | 36 833 | 159 710 | X | |
| 335314 | Relay & industrial control mfg | 1998.. 465 070 | 170 285 | 294 785 | 24 |
| | 1997.. 340 406 | 72 616 | 267 790 | X | |
| 3359 | Other electrical equipment & component mfg | 1998.. 1 805 290 | 349 079 | 1 456 211 | 3 |
| | 1997.. 1 694 380 | 330 195 | 1 364 185 | X | |
| 33591 | Battery mfg | 1998.. 247 405 | 31 078 | 216 327 | 1 |
| | 1997.. 297 776 | 86 603 | 211 173 | X | |
| 335911 | Storage battery mfg | 1998.. 133 758 | 16 230 | 117 528 | 2 |
| | 1997.. 171 483 | 62 366 | 109 117 | X | |
| 335912 | Primary battery mfg | 1998.. 113 647 | 14 848 | 98 799 | 1 |
| | 1997.. 126 293 | 24 237 | 102 056 | X | |
| 33592 | Communication & energy wire & cable mfg | 1998.. 755 793 | 179 527 | 576 266 | 4 |
| | 1997.. 609 451 | 109 255 | 500 196 | X | |
| 335921 | Fiber optic cable mfg | 1998.. 298 718 | 105 692 | 193 026 | 1 |
| | 1997.. 192 111 | 27 181 | 164 930 | X | |
| 335929 | Other communication & energy wire mfg | 1998.. 457 075 | 73 834 | 383 241 | 6 |
| | 1997.. 417 340 | 82 074 | 335 266 | X | |
| 33593 | Wiring device mfg | 1998.. 372 815 | 71 493 | 301 322 | 5 |
| | 1997.. 380 729 | 55 033 | 325 696 | X | |
| 335931 | Current-carrying wiring device mfg | 1998.. 234 242 | 42 203 | 192 039 | 6 |
| | 1997.. 219 293 | 35 755 | 183 538 | X | |
| 335932 | Noncurrent-carrying wiring device mfg | 1998.. 138 573 | 29 290 | 109 283 | 6 |
| | 1997.. 161 436 | 19 278 | 142 158 | X | |
| 33599 | All other electrical equipment & component mfg .. | 1998.. 429 277 | 66 981 | 362 296 | 7 |
| | 1997.. 406 424 | 79 304 | 327 120 | X | |
| 335991 | Carbon & graphite product mfg | 1998.. 154 391 | 16 323 | 138 068 | 10 |
| | 1997.. 182 575 | 32 282 | 150 293 | X | |
| 335999 | All other miscellaneous electrical equipment & component mfg | 1998.. 274 886 | 50 658 | 224 228 | 10 |
| | 1997.. 223 849 | 47 022 | 176 827 | X | |
| 336 | Transportation equipment mfg | 1998.. 20 022 363 | 2 501 734 | 17 520 628 | 1 |
| | 1997.. 19 077 372 | 2 653 351 | 16 424 021 | X | |
| 3361 | Motor vehicle mfg | 1998.. 5 380 668 | 503 967 | 4 876 701 | 1 |
| | 1997.. 5 243 971 | 516 846 | 4 727 125 | X | |
| 33611 | Automobile & light duty motor vehicle mfg | 1998.. 5 242 320 | 461 541 | 4 780 779 | 1 |
| | 1997.. 5 123 236 | 495 977 | 4 627 259 | X | |
| 336111 | Automobile mfg | 1998.. 3 163 350 | 217 770 | 2 945 580 | 1 |
| | 1997.. 3 353 750 | 265 740 | 3 088 010 | X | |
| 336112 | Light truck & utility vehicle mfg | 1998.. 2 078 970 | 243 771 | 1 835 199 | 1 |
| | 1997.. 1 769 486 | 230 237 | 1 539 249 | X | |
| 33612 | Heavy duty truck mfg | 1998.. 138 348 | 42 426 | 95 922 | 1 |
| | 1997.. 120 735 | 20 869 | 99 866 | X | |
| 336120 | Heavy duty truck mfg | 1998.. 138 348 | 42 426 | 95 922 | 1 |
| | 1997.. 120 735 | 20 869 | 99 866 | X | |
| 3362 | Motor vehicle body & trailer mfg | 1998.. 467 752 | 121 036 | 346 716 | 5 |
| | 1997.. 442 175 | 140 621 | 301 554 | X | |
| 33621 | Motor vehicle body & trailer mfg | 1998.. 467 752 | 121 036 | 346 716 | 5 |
| | 1997.. 442 175 | 140 621 | 301 554 | X | |
| 336211 | Motor vehicle body mfg | 1998.. 224 766 | 30 161 | 194 605 | X |
| | 1997.. 230 356 | 63 669 | 166 687 | X | |
| 336212 | Truck trailer mfg | 1998.. 136 416 | 51 477 | 84 940 | 10 |
| | 1997.. 89 608 | 20 750 | 68 858 | X | |
| 336213 | Motor home mfg | 1998.. 33 417 | 10 519 | 22 898 | 6 |
| | 1997.. 50 483 | 25 191 | 25 292 | X | |
| 336214 | Travel trailer & camper mfg | 1998.. 73 153 | 28 879 | 44 274 | 16 |
| | 1997.. 71 728 | 31 011 | 40 717 | X | |
| 3363 | Motor vehicle parts mfg | 1998.. 9 739 010 | 837 881 | 8 901 129 | 1 |
| | 1997.. 9 476 028 | 904 750 | 8 571 278 | X | |
| 33631 | Motor vehicle gasoline engine & engine parts mfg | 1998.. 1 764 913 | 130 855 | 1 634 058 | 1 |
| | 1997.. 1 923 971 | 204 622 | 1 719 349 | X | |
| 336311 | Carburetor, piston, piston ring, & valve mfg | 1998.. 197 673 | 8 345 | 189 328 | 7 |
| | 1997.. 180 295 | 12 242 | 168 053 | X | |
| 336312 | Gasoline engine & engine parts mfg | 1998.. 1 567 240 | 122 510 | 1 444 730 | 1 |
| | 1997.. 1 743 676 | 192 380 | 1 551 296 | X | |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|-------------------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 336 | Transportation equipment mfg—Con. | | | | |
| 3363 | Motor vehicle parts mfg—Con. | | | | |
| 33632 | Motor vehicle electrical & electronic equipment mfg | 769 215 | 56 530 | 712 686 | 3 |
| | 1998.. | 864 519 | 70 701 | 793 818 | X |
| | 1997.. | 104 187 | 11 422 | 92 765 | 2 |
| 336321 | Vehicular lighting equipment mfg | 169 235 | 10 964 | 158 271 | X |
| 336322 | Other motor vehicle electrical & electronic equipment mfg | 665 028 | 45 108 | 619 920 | 3 |
| | 1998.. | 695 284 | 59 737 | 635 547 | X |
| 33633 | Motor vehicle steering & suspension component (except spring) mfg | 577 369 | 34 067 | 543 302 | 3 |
| | 1997.. | 550 375 | 29 575 | 520 800 | X |
| 336330 | Motor vehicle steering & suspension component (except spring) mfg | 577 369 | 34 067 | 543 302 | 3 |
| | 1998.. | 550 375 | 29 575 | 520 800 | X |
| 33634 | Motor vehicle brake system mfg | 503 292 | 42 120 | 461 171 | 5 |
| 336340 | Motor vehicle brake system mfg | 486 471 | 52 968 | 433 503 | X |
| | 1998.. | 503 292 | 42 120 | 461 171 | 5 |
| | 1997.. | 486 471 | 52 968 | 433 503 | X |
| 33635 | Motor vehicle transmission & power train parts mfg | 2 274 656 | 106 626 | 2 168 030 | 4 |
| | 1998.. | 1 955 083 | 110 633 | 1 844 450 | X |
| 336350 | Motor vehicle transmission & power train parts mfg | 2 274 656 | 106 626 | 2 168 030 | 4 |
| | 1997.. | 1 955 083 | 110 633 | 1 844 450 | X |
| 33636 | Motor vehicle seating & interior trim mfg | 323 224 | 52 465 | 270 759 | 6 |
| 336360 | Motor vehicle seating & interior trim mfg | 323 224 | 52 465 | 270 759 | 6 |
| | 1998.. | 288 891 | 32 926 | 255 965 | X |
| | 1997.. | 288 891 | 32 926 | 255 965 | X |
| 33637 | Motor vehicle metal stamping | 1 386 746 | 155 169 | 1 231 577 | 4 |
| | 1998.. | 1 518 707 | 142 175 | 1 376 532 | X |
| 336370 | Motor vehicle metal stamping | 1 386 746 | 155 169 | 1 231 577 | 4 |
| | 1998.. | 1 518 707 | 142 175 | 1 376 532 | X |
| 33639 | Other motor vehicle parts mfg | 2 139 595 | 260 050 | 1 879 546 | 3 |
| | 1998.. | 1 888 011 | 261 150 | 1 626 861 | X |
| 336391 | Motor vehicle air-conditioning mfg | 252 762 | 26 027 | 226 735 | 2 |
| | 1998.. | 188 566 | 15 255 | 173 311 | X |
| 336399 | All other motor vehicle parts mfg | 1 886 834 | 234 023 | 1 652 811 | 4 |
| | 1998.. | 1 699 445 | 245 895 | 1 453 550 | X |
| 3364 | Aerospace product & parts mfg | 3 475 085 | 861 136 | 2 613 949 | 2 |
| | 1997.. | 3 130 514 | 892 602 | 2 237 912 | X |
| 33641 | Aerospace product & parts mfg | 3 475 085 | 861 136 | 2 613 949 | 2 |
| | 1998.. | 3 130 514 | 892 602 | 2 237 912 | X |
| 336411 | Aircraft mfg | 913 887 | 331 190 | 582 697 | 3 |
| 336412 | Aircraft engine & engine parts mfg | 775 165 | 348 942 | 426 223 | X |
| 336413 | Other aircraft part & auxiliary equipment mfg | 678 246 | 80 052 | 598 194 | X |
| 336414 | Guided missile & space vehicle mfg | 988 569 | 166 142 | 822 427 | 6 |
| | 1998.. | 924 760 | 186 210 | 738 550 | X |
| 336415 | Guided missile & space vehicle mfg | 699 120 | 260 727 | 438 393 | 1 |
| | 1998.. | 634 227 | 250 228 | 383 999 | X |
| | Guided missile & space vehicle propulsion unit & parts mfg | 112 405 | 20 563 | 91 842 | 1 |
| | 1997.. | 89 321 | 21 982 | 67 339 | X |
| 336419 | Other guided missile & space vehicle parts & auxiliary equip mfg | 41 420 | 6 307 | 35 113 | 2 |
| | 1998.. | 28 795 | 5 188 | 23 607 | X |
| 3365 | Railroad rolling stock mfg | 198 906 | 32 343 | 166 563 | 1 |
| | 1997.. | 197 174 | 22 488 | 174 686 | X |
| 33651 | Railroad rolling stock mfg | 198 906 | 32 343 | 166 563 | 1 |
| | 1998.. | 197 174 | 22 488 | 174 686 | X |
| 336510 | Railroad rolling stock mfg | 198 906 | 32 343 | 166 563 | 1 |
| | 1998.. | 197 174 | 22 488 | 174 686 | X |
| 3366 | Ship & boat building | 492 040 | 110 724 | 381 316 | 4 |
| | 1997.. | 366 855 | 126 409 | 240 446 | X |
| 33661 | Ship & boat building | 492 040 | 110 724 | 381 316 | 4 |
| | 1998.. | 366 855 | 126 409 | 240 446 | X |
| 336611 | Ship building & repairing | 257 632 | 88 827 | 168 806 | 7 |
| 336612 | Boat building | 244 635 | 93 243 | 151 392 | X |
| | 1998.. | 234 408 | 21 897 | 212 511 | 2 |
| | 1997.. | 122 220 | 33 166 | 89 054 | X |
| 3369 | Other transportation equipment mfg | 268 901 | 34 647 | 234 254 | 5 |
| | 1997.. | 220 655 | 49 635 | 171 020 | X |
| 33699 | Other transportation equipment mfg | 268 901 | 34 647 | 234 254 | 5 |
| | 1998.. | 220 655 | 49 635 | 171 020 | X |
| 336991 | Motorcycle, bicycle, & parts mfg | 132 271 | 10 194 | 122 076 | 9 |
| | 1998.. | 104 852 | 19 553 | 85 299 | X |
| 336992 | Military armored vehicle, tank, & tank component mfg | 16 033 | 5 230 | 10 803 | 9 |
| | 1998.. | 17 355 | 6 013 | 11 342 | X |
| 336999 | All other transportation equipment mfg | 120 597 | 19 222 | 101 375 | 5 |
| | 1998.. | 98 448 | 24 069 | 74 379 | X |
| 337 | Furniture & related product mfg | 1 958 865 | 521 962 | 1 436 904 | 4 |
| | 1997.. | 1 746 462 | 373 826 | 1 372 636 | X |
| 3371 | Household & institutional furniture & kitchen cabinet mfg | 913 141 | 255 785 | 657 356 | 6 |
| | 1998.. | 860 945 | 202 332 | 658 613 | X |
| 33711 | Wood kitchen cabinet & counter top mfg | 246 893 | 57 452 | 189 441 | 5 |
| | 1997.. | 243 781 | 55 497 | 188 284 | X |
| 337110 | Wood kitchen cabinet & counter top mfg | 246 893 | 57 452 | 189 441 | 5 |
| | 1998.. | 243 781 | 55 497 | 188 284 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|----------------------------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | |
| 337 | Furniture & related product mfg—Con. | | | | |
| 3371 | Household & institutional furniture & kitchen cabinet mfg—Con. | | | | |
| 33712 | Household & institutional furniture mfg | 666 248 | 198 333 | 467 915 | 7 |
| | 1998.. | 617 164 | 146 835 | 470 329 | X |
| 337121 | Upholstered household furniture mfg | 148 488 | 74 073 | 74 414 | 25 |
| | 1998.. | 107 015 | 33 983 | 73 032 | X |
| 337122 | Nonupholstered wood household furniture mfg | 271 061 | 62 604 | 208 457 | 6 |
| | 1998.. | 297 539 | 69 717 | 227 822 | X |
| 337124 | Metal household furniture mfg | 83 184 | 31 489 | 51 695 | 10 |
| | 1998.. | 77 602 | 19 381 | 58 221 | X |
| 337125 | Household furniture (except wood & metal) mfg | 8 963 | 1 106 | 7 858 | 10 |
| | 1998.. | 13 352 | 1 724 | 11 628 | X |
| 337127 | Institutional furniture mfg | 145 092 | 28 563 | 116 528 | 19 |
| | 1998.. | 115 359 | 21 676 | 93 683 | X |
| 337129 | Wood television, radio, & sewing machine cabinet mfg | 9 459 | 498 | 8 962 | 56 |
| | 1998.. | 6 297 | 354 | 5 943 | X |
| 3372 | Office furniture (including fixtures) mfg | 865 330 | 230 149 | 635 181 | 7 |
| | 1998.. | 715 384 | 127 908 | 587 476 | X |
| 33721 | Office furniture (including fixtures) mfg | 865 330 | 230 149 | 635 181 | 7 |
| | 1998.. | 715 384 | 127 908 | 587 476 | X |
| 337211 | Wood office furniture mfg | 156 132 | 45 383 | 110 749 | 5 |
| | 1998.. | 111 028 | 29 435 | 81 593 | X |
| 337212 | Custom architectural woodwork & millwork mfg | 46 473 | 11 558 | 34 915 | 19 |
| | 1998.. | 55 804 | 13 519 | 42 285 | X |
| 337214 | Office furniture (except wood) mfg | 357 682 | 67 663 | 290 019 | 3 |
| | 1998.. | 321 503 | 36 319 | 285 184 | X |
| 337215 | Showcase, partition, shelving, & locker mfg | 305 043 | 105 545 | 199 498 | 20 |
| | 1998.. | 227 049 | 48 635 | 178 414 | X |
| 3379 | Other furniture related product mfg | 180 394 | 36 028 | 144 366 | 9 |
| | 1998.. | 170 133 | 43 586 | 126 547 | X |
| 33791 | Mattress mfg | 119 565 | 23 771 | 95 794 | 13 |
| | 1998.. | 125 633 | 27 463 | 98 170 | X |
| 337910 | Mattress mfg | 119 565 | 23 771 | 95 794 | 13 |
| | 1998.. | 125 633 | 27 463 | 98 170 | X |
| 33792 | Blind & shade mfg | 60 829 | 12 257 | 48 573 | 9 |
| | 1998.. | 44 500 | 16 123 | 28 377 | X |
| 337920 | Blind & shade mfg | 60 829 | 12 257 | 48 573 | 9 |
| | 1998.. | 44 500 | 16 123 | 28 377 | X |
| 339 | Miscellaneous mfg | 3 911 419 | 920 401 | 2 991 018 | 5 |
| | 1998.. | 3 474 860 | 648 651 | 2 826 209 | X |
| 3391 | Medical equipment & supplies mfg | 2 112 984 | 541 602 | 1 571 382 | 9 |
| | 1997.. | 1 733 657 | 335 656 | 1 398 001 | X |
| 33911 | Medical equipment & supplies mfg | 2 112 984 | 541 602 | 1 571 382 | 9 |
| | 1997.. | 1 733 657 | 335 656 | 1 398 001 | X |
| 339111 | Laboratory apparatus & furniture mfg | 73 310 | 15 926 | 57 383 | 15 |
| | 1998.. | 69 675 | 15 127 | 54 548 | X |
| 339112 | Surgical & medical instrument mfg | 780 321 | 171 269 | 609 052 | 5 |
| | 1998.. | 714 634 | 148 640 | 565 994 | X |
| 339113 | Surgical appliance & supplies mfg | 780 589 | 249 275 | 531 314 | 22 |
| | 1997.. | 564 826 | 111 105 | 453 721 | X |
| 339114 | Dental equipment & supplies mfg | 81 479 | 19 939 | 61 540 | 6 |
| | 1998.. | 72 376 | 13 582 | 58 794 | X |
| 339115 | Ophthalmic goods mfg | 320 412 | 75 996 | 244 416 | 3 |
| | 1997.. | 238 237 | 36 746 | 201 491 | X |
| 339116 | Dental laboratories | 76 874 | S | S | 9 |
| | 1998.. | 73 909 | S | S | X |
| 3399 | Other miscellaneous mfg | 1 798 435 | 378 799 | 1 419 636 | 4 |
| | 1997.. | 1 741 203 | 312 995 | 1 428 208 | X |
| 33991 | Jewelry & silverware mfg | 134 188 | 19 546 | 114 643 | 8 |
| | 1998.. | 113 352 | 19 005 | 94 347 | X |
| 339911 | Jewelry (except costume) mfg | 66 712 | 14 516 | 52 196 | 13 |
| | 1998.. | 61 140 | 11 513 | 49 627 | X |
| 339912 | Silverware & plated ware mfg | 21 044 | 2 485 | 18 559 | 13 |
| | 1998.. | 19 860 | 4 703 | 15 157 | X |
| 339913 | Jewelers' material & lapidary work mfg | 13 614 | 1 003 | 12 611 | 25 |
| | 1998.. | 11 598 | 790 | 10 808 | X |
| 339914 | Costume jewelry & novelty mfg | 32 818 | 1 542 | 31 276 | 8 |
| | 1998.. | 20 754 | 1 999 | 18 755 | X |
| 33992 | Sporting & athletic goods mfg | 339 560 | 67 651 | 271 909 | 6 |
| | 1997.. | 349 764 | 57 808 | 291 956 | X |
| 339920 | Sporting & athletic goods mfg | 339 560 | 67 651 | 271 909 | 6 |
| | 1997.. | 349 764 | 57 808 | 291 956 | X |
| 33993 | Doll, toy, & game mfg | 126 890 | 27 363 | 99 527 | 5 |
| | 1997.. | 138 393 | 17 888 | 120 505 | X |
| 339931 | Doll & stuffed toy mfg | 2 050 | 1 049 | 1 001 | 4 |
| | 1998.. | 3 939 | 944 | 2 995 | X |
| 339932 | Game, toy, & children's vehicle mfg | 124 840 | 26 313 | 98 527 | 5 |
| | 1997.. | 134 454 | 16 944 | 117 510 | X |
| 33994 | Office supplies (except paper) mfg | 143 681 | 10 906 | 132 775 | 8 |
| | 1998.. | 120 344 | 17 208 | 103 136 | X |
| 339941 | Pen & mechanical pencil mfg | 72 098 | 5 001 | 67 097 | 16 |
| | 1997.. | 53 963 | 8 646 | 45 317 | X |
| 339942 | Lead pencil & art good mfg | 44 959 | 2 435 | 42 524 | 6 |
| | 1997.. | 28 915 | 4 276 | 24 639 | X |
| 339943 | Marking device mfg | 4 288 | 908 | 3 379 | 15 |
| | 1997.. | 20 144 | 3 115 | 17 029 | X |
| 339944 | Carbon paper & inked ribbon mfg | 22 335 | 2 561 | 19 775 | 8 |
| | 1997.. | 17 322 | 1 171 | 16 151 | X |

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 1998 and 1997—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| NAICS code | Industry group and industry | Total (\$1,000) | Buildings and other structures (\$1,000) | Machinery and equipment (\$1,000) | Relative standard error of estimate ¹ (percent) for column— |
|------------|---------------------------------------------|--------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------|
| | | A | B | C | A |
| 339 | Miscellaneous mfg—Con. | | | | |
| 3399 | Other miscellaneous mfg—Con. | | | | |
| 33995 | Sign mfg | 187 823 | 39 411 | 148 412 | 12 |
| | 1998.. | 235 469 | 44 244 | 191 225 | X |
| | 1997.. | 187 823 | 39 411 | 148 412 | 12 |
| 339950 | Sign mfg | 235 469 | 44 244 | 191 225 | X |
| 33999 | All other miscellaneous mfg | 866 294 | 213 924 | 652 370 | 7 |
| | 1998.. | 783 881 | 156 842 | 627 039 | X |
| 339991 | Gasket, packing, & sealing device mfg | 239 982 | 27 875 | 212 108 | 14 |
| | 1998.. | 200 288 | 25 462 | 174 826 | X |
| 339992 | Musical instrument mfg | 56 092 | 18 097 | 37 995 | 18 |
| | 1998.. | 36 466 | 11 187 | 25 279 | X |
| 339993 | Fastener, button, needle, & pin mfg | 52 849 | 10 518 | 42 331 | 6 |
| | 1998.. | 48 265 | 7 429 | 40 836 | X |
| 339994 | Broom, brush, & mop mfg | 208 075 | 96 611 | 111 465 | 8 |
| | 1998.. | 90 254 | 13 108 | 77 146 | X |
| 339995 | Burial casket mfg | 18 965 | 3 615 | 15 351 | 3 |
| | 1998.. | 28 453 | 4 642 | 23 811 | X |
| 339999 | All other miscellaneous mfg | 290 330 | 57 210 | 233 120 | 14 |
| | 1998.. | 380 155 | 95 014 | 285 141 | X |
| | 1997.. | | | | |

¹Description of relative standard error of estimate is given in Appendix B. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note: 1997 data may differ from that published in the 1997 Census of Manufactures final industry series because of changes encountered in subsequent 1997 census review or revisions discovered during 1998 Annual Survey of Manufactures review.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text.]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | | |
|------------|---------------------------------------------------------|--------------------|-------------|-------------------|-----------------|----------------------------------|--------------------|-------------|-------------------|------------------------------------------------------------------------|----------------------------------|----|----|----|---|
| | | Total ¹ | | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | A | B | C | D | | |
| 31-33 | Manufacturing | 1998.. | 447 451 378 | 153 469 329 | 139 885 749 | 154 096 300 | 434 447 532 | 148 807 459 | 134 205 732 | 151 434 341 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 433 804 676 | 148 459 478 | 133 408 829 | 151 936 369 | 420 714 719 | 143 056 487 | 132 726 178 | 144 932 054 | X | X | X | X | |
| 311 | Food mfg | 1998.. | 30 340 597 | 16 814 515 | 2 818 380 | 10 707 702 | 30 267 175 | 16 695 011 | 3 042 416 | 10 529 748 | 1 | 1 | 2 | 1 | |
| | | 1997.. | 30 270 402 | 16 596 398 | 3 026 863 | 10 646 601 | 29 606 271 | 16 238 798 | 2 969 589 | 10 397 884 | X | X | X | X | |
| 3111 | Animal food mfg | 1998.. | 1 183 839 | 471 897 | 152 907 | 559 035 | 1 247 053 | 514 147 | 146 953 | 585 954 | 2 | 2 | 11 | 2 | |
| | | 1997.. | 1 249 794 | 498 107 | 175 834 | 575 853 | 1 230 036 | 518 371 | 118 451 | 593 214 | X | X | X | X | |
| 31111 | Animal food mfg | 1998.. | 1 183 839 | 471 897 | 152 907 | 559 035 | 1 247 053 | 514 147 | 146 953 | 585 954 | 2 | 2 | 11 | 2 | |
| | | 1997.. | 1 249 794 | 498 107 | 175 834 | 575 853 | 1 230 036 | 518 371 | 118 451 | 593 214 | X | X | X | X | |
| 311111 | Dog & cat food mfg | 1998.. | 393 490 | 183 697 | 10 334 | 199 460 | 401 619 | 205 294 | 6 262 | 190 063 | 1 | 1 | 17 | 1 | |
| | | 1997.. | 428 590 | 212 997 | 24 045 | 191 548 | 390 833 | 191 477 | 26 698 | 172 658 | X | X | X | X | |
| 311119 | Other animal food mfg | 1998.. | 790 348 | 288 201 | 142 573 | 359 574 | 845 434 | 308 852 | 140 691 | 395 891 | 3 | 4 | 11 | 3 | |
| | | 1997.. | 821 204 | 285 110 | 151 789 | 384 305 | 839 203 | 326 894 | 91 753 | 420 556 | X | X | X | X | |
| 3112 | Grain & oilseed milling | 1998.. | 3 828 338 | 1 423 935 | 333 342 | 2 071 061 | 3 978 873 | 1 445 764 | 354 745 | 2 178 364 | 1 | 3 | 5 | 2 | |
| | | 1997.. | 4 022 859 | 1 498 944 | 349 190 | 2 174 725 | 4 125 146 | 1 495 771 | 343 580 | 2 285 795 | X | X | X | X | |
| 31121 | Flour milling & malt mfg | 1998.. | 1 117 717 | 307 928 | 85 858 | 723 931 | 1 229 281 | 346 755 | 111 891 | 770 635 | 3 | 7 | 19 | 5 | |
| | | 1997.. | 1 223 198 | 349 228 | 111 361 | 762 609 | 1 240 103 | 341 513 | 109 418 | 789 172 | X | X | X | X | |
| 311211 | Flour milling | 1998.. | 599 551 | 111 787 | 14 916 | 472 848 | 617 676 | 132 170 | 15 073 | 470 433 | 2 | 3 | 4 | 3 | |
| | | 1997.. | 611 131 | 133 018 | 14 358 | 463 755 | 618 554 | 141 571 | 13 734 | 463 249 | X | X | X | X | |
| 311212 | Rice milling | 1998.. | 336 029 | 98 962 | 38 769 | 198 298 | 397 206 | 130 363 | 58 467 | 208 376 | 7 | 4 | 42 | 8 | |
| | | 1997.. | 397 766 | 131 266 | 58 515 | 207 985 | 391 874 | 111 909 | 43 571 | 236 394 | X | X | X | X | |
| 311213 | Malt mfg | 1998.. | 182 137 | 97 179 | 32 174 | 52 785 | 214 399 | 84 222 | 38 351 | 91 826 | 6 | 21 | 5 | 55 | |
| | | 1997.. | 214 301 | 84 944 | 38 488 | 90 869 | 229 675 | 88 033 | 52 113 | 89 529 | X | X | X | X | |
| 31122 | Starch & vegetable fats & oils mfg | 1998.. | 2 383 960 | 997 894 | 244 158 | 1 141 907 | 2 398 355 | 986 565 | 238 808 | 1 172 982 | 1 | 3 | 1 | 1 | |
| | | 1997.. | 2 429 508 | 1 008 132 | 233 964 | 1 187 412 | 2 557 535 | 1 032 119 | 231 639 | 1 293 777 | X | X | X | X | |
| 311221 | Wet corn milling | 1998.. | 554 072 | 284 977 | 48 351 | 220 744 | 536 278 | 263 965 | 48 846 | 223 467 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 548 113 | 267 802 | 49 261 | 231 050 | 564 921 | 274 929 | 64 807 | 225 185 | X | X | X | X | |
| 311222 | Soybean processing | 1998.. | 886 926 | 385 482 | 31 989 | 469 455 | 955 613 | 422 553 | 43 311 | 489 749 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 968 059 | 427 702 | 43 546 | 496 811 | 1 018 284 | 402 230 | 32 889 | 583 165 | X | X | X | X | |
| 311223 | Other oilseed processing | 1998.. | 429 011 | 138 161 | 48 786 | 242 065 | 381 251 | 93 462 | 39 607 | 248 182 | 8 | 24 | 1 | 1 | |
| | | 1997.. | 423 705 | 103 250 | 37 661 | 282 794 | 485 959 | 158 121 | 37 548 | 290 290 | X | X | X | X | |
| 311225 | Fats & oils refining & blending | 1998.. | 513 951 | 189 275 | 115 032 | 209 644 | 525 213 | 206 585 | 107 044 | 211 584 | 1 | 2 | 2 | 2 | |
| | | 1997.. | 489 631 | 209 378 | 103 496 | 176 757 | 488 371 | 196 839 | 96 395 | 195 137 | X | X | X | X | |
| 31123 | Breakfast cereal mfg | 1998.. | 326 661 | 118 112 | 3 325 | 205 223 | 351 237 | 112 444 | 4 046 | 234 747 | 2 | 1 | 3 | 3 | |
| | | 1997.. | 370 153 | 141 584 | 3 865 | 224 704 | 327 508 | 122 139 | 2 523 | 202 846 | X | X | X | X | |
| 311230 | Breakfast cereal mfg | 1998.. | 326 661 | 118 112 | 3 325 | 205 223 | 351 237 | 112 444 | 4 046 | 234 747 | 2 | 1 | 3 | 3 | |
| | | 1997.. | 370 153 | 141 584 | 3 865 | 224 704 | 327 508 | 122 139 | 2 523 | 202 846 | X | X | X | X | |
| 3113 | Sugar & confectionery product mfg | 1998.. | 3 559 588 | 1 956 994 | 228 044 | 1 374 550 | 3 291 275 | 1 806 559 | 249 750 | 1 234 966 | 3 | 3 | 1 | 4 | |
| | | 1997.. | 3 209 328 | 1 740 601 | 255 912 | 1 212 815 | 2 994 549 | 1 525 157 | 303 768 | 1 165 624 | X | X | X | X | |
| 31131 | Sugar mfg | 1998.. | 1 499 222 | 974 043 | 111 403 | 413 776 | 1 453 570 | 902 446 | 132 959 | 418 165 | 4 | 6 | 1 | 1 | |
| | | 1997.. | 1 397 257 | 840 788 | 145 290 | 411 179 | 1 327 365 | 724 981 | 186 063 | 416 321 | X | X | X | X | |
| 311311 | Sugarcane mills | 1998.. | 453 755 | 397 654 | 6 822 | 49 279 | 383 256 | 325 472 | 10 071 | 47 713 | 13 | 15 | 1 | 1 | |
| | | 1997.. | 383 113 | 325 276 | 10 048 | 47 789 | 320 449 | 261 876 | 11 307 | 47 266 | X | X | X | X | |
| 311312 | Cane sugar refining | 1998.. | 226 312 | 78 616 | 32 647 | 115 049 | 221 307 | 82 496 | 32 385 | 106 426 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 229 379 | 83 953 | 44 945 | 100 481 | 254 854 | 79 860 | 40 444 | 134 550 | X | X | X | X | |
| 311313 | Beet sugar mfg | 1998.. | 819 155 | 497 773 | 71 934 | 249 448 | 849 007 | 494 478 | 90 503 | 264 026 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 784 765 | 431 559 | 90 297 | 262 909 | 752 062 | 383 245 | 134 312 | 234 505 | X | X | X | X | |
| 31132 | Chocolate & confectionery mfg from cacao beans | 1998.. | 639 189 | 254 192 | 53 487 | 331 510 | 447 315 | 169 078 | 45 296 | 232 941 | 10 | 4 | 1 | 16 | |
| | | 1997.. | 435 261 | 165 361 | 44 679 | 225 221 | 404 129 | 170 597 | 48 333 | 185 199 | X | X | X | X | |
| 311320 | Chocolate & confectionery mfg from cacao beans | 1998.. | 639 189 | 254 192 | 53 487 | 331 510 | 447 315 | 169 078 | 45 296 | 232 941 | 10 | 4 | 1 | 16 | |
| | | 1997.. | 435 261 | 165 361 | 44 679 | 225 221 | 404 129 | 170 597 | 48 333 | 185 199 | X | X | X | X | |
| 31133 | Confectionery mfg from purchased chocolate | 1998.. | 804 263 | 447 583 | 39 226 | 317 454 | 774 219 | 454 188 | 44 385 | 275 646 | 1 | 1 | 4 | 2 | |
| | | 1997.. | 788 561 | 463 412 | 43 801 | 281 348 | 693 274 | 384 305 | 40 691 | 268 278 | X | X | X | X | |
| 311330 | Confectionery mfg from purchased chocolate | 1998.. | 804 263 | 447 583 | 39 226 | 317 454 | 774 219 | 454 188 | 44 385 | 275 646 | 1 | 1 | 4 | 2 | |
| | | 1997.. | 788 561 | 463 412 | 43 801 | 281 348 | 693 274 | 384 305 | 40 691 | 268 278 | X | X | X | X | |
| 31134 | Nonchocolate confectionery mfg | 1998.. | 616 914 | 281 177 | 23 928 | 311 810 | 616 171 | 280 846 | 27 110 | 308 215 | 1 | 1 | 11 | 1 | |
| | | 1997.. | 588 249 | 271 040 | 22 142 | 295 067 | 569 781 | 245 274 | 28 681 | 295 826 | X | X | X | X | |
| 311340 | Nonchocolate confectionery mfg | 1998.. | 616 914 | 281 177 | 23 928 | 311 810 | 616 171 | 280 846 | 27 110 | 308 215 | 1 | 1 | 11 | 1 | |
| | | 1997.. | 588 249 | 271 040 | 22 142 | 295 067 | 569 781 | 245 274 | 28 681 | 295 826 | X | X | X | X | |
| 3114 | Fruit & vegetable preserving & specialty food mfg | 1998.. | 8 390 927 | 5 806 412 | 867 126 | 1 717 389 | 8 262 140 | 5 621 058 | 912 906 | 1 728 176 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 8 248 464 | 5 607 055 | 886 997 | 1 754 412 | 8 349 402 | 5 717 261 | 925 941 | 1 706 200 | X | X | X | X | |
| 31141 | Frozen food mfg | 1998.. | 2 911 725 | 1 980 411 | 245 400 | 685 914 | 2 685 118 | 1 790 358 | 222 197 | 688 562 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 2 622 582 | 1 710 326 | 207 146 | 705 110 | 2 669 309 | 1 742 393 | 250 695 | 676 221 | X | X | X | X | |
| 311411 | Frozen fruit, juice, & vegetable mfg | 1998.. | 2 164 860 | 1 552 287 | 206 586 | 405 988 | 1 995 188 | 1 400 264 | 192 054 | 402 870 | 1 | 1 | 2 | 2 | |
| | | 1997.. | 1 968 685 | 1 354 702 | 176 116 | 437 867 | 2 043 513 | 1 399 980 | 222 967 | 420 566 | X | X | X | X | |
| 311412 | Frozen specialty food mfg | 1998.. | 746 864 | 428 123 | 38 814 | 279 927 | 683 990 | 390 094 | 34 143 | 265 693 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 653 897 | 355 624 | 31 030 | 267 243 | 625 796 | 342 413 | 40 097 | 226 857 | 1 | 1 | 3 | 2 | |
| 31142 | Fruit & vegetable canning, pickling, & drying | 1998.. | 5 479 202 | 3 826 001 | 621 727 | 1 031 475 | 5 577 022 | 3 830 699 | 686 709 | 1 059 614 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 5 625 882 | 3 896 729 | 679 851 | 1 049 302 | 5 680 093 | 3 974 868 | 675 246 | 1 029 979 | X | X | X | X | |
| 311421 | Fruit & vegetable canning | 1998.. | 3 880 429 | 2 722 816 | 449 531 | 708 082 | 3 940 316 | 2 738 262 | 489 455 | 712 599 | 2 | | | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|--------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|----|----|----|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | A | B | C | D | E | F | G | H | A | B | C | D | |
| 311 | Food mfg—Con. | | | | | | | | | | | | | |
| 3115 | Dairy product mfg—Con. | | | | | | | | | | | | | |
| 31151 | Dairy product (except frozen) mfg—Con. | | | | | | | | | | | | | |
| 311514 | Dry, condensed, & evaporated dairy product mfg | 1998.. | 635 206 | 411 078 | 48 162 | 175 966 | 566 465 | 353 201 | 42 740 | 170 524 | 5 | 6 | 15 | 6 |
| | | 1997.. | 563 519 | 350 566 | 42 511 | 170 442 | 570 479 | 365 810 | 39 168 | 165 501 | X | X | X | X |
| 31152 | Ice cream & frozen dessert mfg | 1998.. | 366 108 | 233 569 | 5 349 | 127 190 | 393 383 | 244 836 | 4 989 | 143 558 | 2 | 3 | 12 | 2 |
| | | 1997.. | 400 163 | 250 515 | 7 123 | 142 525 | 399 946 | 248 350 | 7 158 | 144 438 | X | X | X | X |
| 311520 | Ice cream & frozen dessert mfg | 1998.. | 366 108 | 233 569 | 5 349 | 127 190 | 393 383 | 244 836 | 4 989 | 143 558 | 2 | 3 | 12 | 2 |
| | | 1997.. | 400 163 | 250 515 | 7 123 | 142 525 | 399 946 | 248 350 | 7 158 | 144 438 | X | X | X | X |
| 3116 | Meat product mfg | 1998.. | 3 657 673 | 2 275 084 | 419 684 | 962 906 | 3 901 610 | 2 441 242 | 512 854 | 947 514 | 1 | 1 | 1 | 1 |
| | | 1997.. | 3 923 673 | 2 463 114 | 482 606 | 977 953 | 3 840 807 | 2 349 293 | 506 688 | 984 826 | X | X | X | X |
| 31161 | Animal slaughtering & processing | 1998.. | 3 657 673 | 2 275 084 | 419 684 | 962 906 | 3 901 610 | 2 441 242 | 512 854 | 947 514 | 1 | 1 | 1 | 1 |
| | | 1997.. | 3 923 673 | 2 463 114 | 482 606 | 977 953 | 3 840 807 | 2 349 293 | 506 688 | 984 826 | X | X | X | X |
| 311611 | Animal (except poultry) slaughtering | 1998.. | 1 116 985 | 819 313 | 94 073 | 203 598 | 1 219 644 | 902 251 | 123 490 | 193 902 | 1 | 1 | 3 | 1 |
| | | 1997.. | 1 257 694 | 933 318 | 108 165 | 216 211 | 1 269 902 | 924 258 | 97 941 | 247 703 | X | X | X | X |
| 311612 | Meat processed from carcasses | 1998.. | 1 281 677 | 722 468 | 138 589 | 420 620 | 1 295 838 | 707 049 | 152 679 | 436 110 | 2 | 4 | 4 | 3 |
| | | 1997.. | 1 270 072 | 689 133 | 146 297 | 434 642 | 1 251 225 | 698 404 | 159 686 | 393 135 | X | X | X | X |
| 311613 | Rendering & meat byproduct processing | 1998.. | 108 877 | 81 008 | 5 910 | 21 960 | 112 591 | 86 596 | 6 127 | 19 868 | 2 | 2 | 9 | 6 |
| | | 1997.. | 111 003 | 86 960 | 5 637 | 18 406 | 100 729 | 76 255 | 6 242 | 18 232 | X | X | X | X |
| 311615 | Poultry processing | 1998.. | 1 150 134 | 652 295 | 181 112 | 316 727 | 1 273 536 | 745 346 | 230 557 | 297 633 | 1 | 1 | 1 | 2 |
| | | 1997.. | 1 284 904 | 753 703 | 222 507 | 308 694 | 1 218 951 | 650 376 | 242 819 | 325 756 | X | X | X | X |
| 3117 | Seafood product preparation & packaging | 1998.. | 960 677 | 605 045 | 20 206 | 335 427 | 1 134 704 | 760 776 | 15 326 | 358 603 | 4 | 4 | 11 | 4 |
| | | 1997.. | 1 093 535 | 751 579 | 20 212 | 321 744 | 1 030 262 | 754 395 | 15 155 | 260 712 | X | X | X | X |
| 31171 | Seafood product preparation & packaging | 1998.. | 960 677 | 605 045 | 20 206 | 335 427 | 1 134 704 | 760 776 | 15 326 | 358 603 | 4 | 4 | 11 | 4 |
| | | 1997.. | 1 093 535 | 751 579 | 20 212 | 321 744 | 1 030 262 | 754 395 | 15 155 | 260 712 | X | X | X | X |
| 311711 | Seafood canning | 1998.. | 132 705 | 91 948 | 2 310 | 38 447 | 149 574 | 104 592 | 2 876 | 42 106 | 13 | 15 | 27 | 10 |
| | | 1997.. | 157 718 | 111 824 | 3 212 | 42 682 | 151 546 | 112 104 | 1 640 | 37 802 | X | X | X | X |
| 311712 | Fresh & frozen seafood processing | 1998.. | 827 973 | 513 097 | 17 896 | 296 979 | 985 130 | 656 184 | 12 450 | 316 497 | 4 | 4 | 12 | 4 |
| | | 1997.. | 935 817 | 639 755 | 17 000 | 279 062 | 878 716 | 642 291 | 13 515 | 222 910 | X | X | X | X |
| 3118 | Bakeries & tortilla mfg | 1998.. | 1 630 972 | 733 767 | 25 092 | 872 114 | 1 613 494 | 699 626 | 29 836 | 884 032 | 7 | 5 | 13 | 10 |
| | | 1997.. | 1 676 628 | 711 340 | 31 700 | 933 588 | 1 651 336 | 710 373 | 34 751 | 906 212 | X | X | X | X |
| 31181 | Bread & bakery product mfg | 1998.. | 661 762 | 206 022 | 12 647 | 443 093 | 652 573 | 173 996 | 15 161 | 463 416 | 16 | 16 | 25 | 19 |
| | | 1997.. | 700 498 | 180 743 | 16 437 | 503 318 | 681 029 | 184 333 | 19 587 | 477 109 | X | X | X | X |
| 311811 | Retail bakeries | 1998.. | 40 470 | 34 194 | 2 604 | 3 673 | 29 262 | 6 521 | 3 264 | 19 477 | A | 98 | A | A |
| | | 1997.. | 94 686 | 16 132 | 5 687 | 72 867 | 82 104 | 12 851 | 10 420 | 58 833 | X | X | X | X |
| 311812 | Commercial bakeries | 1998.. | 447 514 | 104 449 | 7 379 | 335 685 | 443 321 | 97 010 | 9 731 | 336 580 | 1 | 1 | 12 | 2 |
| | | 1997.. | 430 071 | 95 834 | 8 588 | 325 649 | 431 898 | 102 055 | 7 076 | 322 767 | X | X | X | X |
| 311813 | Frozen cakes, pies, & other pastries mfg | 1998.. | 173 778 | 67 378 | 2 663 | 103 736 | 179 990 | 70 465 | 2 166 | 107 359 | 5 | 4 | 6 | 7 |
| | | 1997.. | 175 741 | 68 777 | 2 162 | 104 802 | 167 027 | 69 427 | 2 091 | 95 509 | X | X | X | X |
| 31182 | Cookie, cracker, & pasta mfg | 1998.. | 926 846 | 512 701 | 10 952 | 403 192 | 920 847 | 512 421 | 12 613 | 395 813 | 1 | 2 | 1 | 1 |
| | | 1997.. | 933 698 | 518 085 | 13 276 | 402 337 | 926 736 | 511 959 | 12 867 | 401 910 | X | X | X | X |
| 311821 | Cookie & cracker mfg | 1998.. | 490 405 | 272 741 | 3 204 | 214 460 | 493 974 | 276 004 | 4 704 | 213 266 | 2 | 4 | 4 | 1 |
| | | 1997.. | 509 212 | 290 218 | 5 162 | 213 832 | 517 496 | 296 986 | 4 066 | 216 444 | X | X | X | X |
| 311822 | Flour mixes & dough mfg from purchased flour | 1998.. | 310 853 | 152 902 | 6 123 | 151 827 | 311 234 | 157 895 | 6 102 | 147 237 | 1 | 1 | 2 | 1 |
| | | 1997.. | 309 905 | 153 168 | 6 394 | 150 343 | 287 760 | 136 903 | 5 062 | 145 795 | X | X | X | X |
| 311823 | Dry pasta mfg | 1998.. | 125 588 | 87 058 | 1 625 | 36 905 | 115 639 | 78 522 | 1 807 | 35 310 | 1 | 1 | 1 | 1 |
| | | 1997.. | 114 581 | 74 699 | 1 720 | 38 162 | 121 480 | 78 070 | 3 739 | 39 671 | X | X | X | X |
| 31183 | Tortilla mfg | 1998.. | 42 365 | 15 043 | 1 493 | 25 828 | 40 073 | 13 208 | 2 062 | 24 803 | 8 | 4 | 31 | 12 |
| | | 1997.. | 42 432 | 12 512 | 1 987 | 27 933 | 43 571 | 14 081 | 2 297 | 27 193 | X | X | X | X |
| 311830 | Tortilla mfg | 1998.. | 42 365 | 15 043 | 1 493 | 25 828 | 40 073 | 13 208 | 2 062 | 24 803 | 8 | 4 | 31 | 12 |
| | | 1997.. | 42 432 | 12 512 | 1 987 | 27 933 | 43 571 | 14 081 | 2 297 | 27 193 | X | X | X | X |
| 3119 | Other food mfg | 1998.. | 3 998 182 | 1 555 949 | 577 451 | 1 864 782 | 3 929 398 | 1 578 745 | 642 439 | 1 708 215 | 2 | 3 | 6 | 2 |
| | | 1997.. | 3 995 454 | 1 554 188 | 647 475 | 1 793 791 | 3 540 194 | 1 396 052 | 554 958 | 1 589 184 | X | X | X | X |
| 31191 | Snack food mfg | 1998.. | 1 086 721 | 336 390 | 259 108 | 491 223 | 975 713 | 339 426 | 305 202 | 331 086 | 7 | 12 | 14 | 4 |
| | | 1997.. | 1 034 520 | 360 050 | 314 968 | 359 502 | 921 295 | 312 913 | 295 369 | 313 013 | X | X | X | X |
| 311911 | Roasted nuts & peanut butter mfg | 1998.. | 766 318 | 195 122 | 253 173 | 318 024 | 674 961 | 202 086 | 302 449 | 170 426 | 10 | 21 | 14 | 6 |
| | | 1997.. | 726 074 | 218 788 | 311 793 | 195 493 | 665 872 | 215 758 | 288 025 | 162 089 | X | X | X | X |
| 311919 | Other snack food mfg | 1998.. | 320 403 | 141 268 | 5 935 | 173 200 | 300 753 | 137 340 | 2 753 | 160 660 | 1 | 1 | 19 | 3 |
| | | 1997.. | 308 446 | 141 262 | 3 175 | 164 009 | 255 423 | 97 155 | 7 344 | 150 924 | X | X | X | X |
| 31192 | Coffee & tea mfg | 1998.. | 628 844 | 249 141 | 86 145 | 293 558 | 698 576 | 267 918 | 99 275 | 331 383 | 1 | 2 | 1 | 2 |
| | | 1997.. | 681 464 | 262 723 | 86 145 | 321 848 | 589 246 | 211 022 | 77 700 | 300 524 | X | X | X | X |
| 311920 | Coffee & tea mfg | 1998.. | 628 844 | 249 141 | 86 145 | 293 558 | 698 576 | 267 918 | 99 275 | 331 383 | 1 | 2 | 1 | 2 |
| | | 1997.. | 681 464 | 262 723 | 86 145 | 321 848 | 589 246 | 211 022 | 77 700 | 300 524 | X | X | X | X |
| 31193 | Flavoring syrup & concentrate mfg | 1998.. | 280 108 | 116 501 | 36 257 | 127 350 | 326 421 | 128 860 | 34 536 | 163 025 | 4 | 3 | 1 | 5 |
| | | 1997.. | 332 651 | 126 340 | 34 007 | 172 304 | 324 521 | 142 804 | 12 475 | 169 242 | X | X | X | X |
| 311930 | Flavoring syrup & concentrate mfg | 1998.. | 280 108 | 116 501 | 36 257 | 127 350 | 326 421 | 128 860 | 34 536 | 163 025 | 4 | 3 | 1 | 5 |
| | | 1997.. | 332 651 | 126 340 | 34 007 | 172 304 | 324 521 | 142 804 | 12 475 | 169 242 | X | X | X | X |
| 31194 | Seasoning & dressing mfg | 1998.. | 1 036 639 | 462 313 | 131 863 | 442 463 | 997 752 | 462 536 | 118 640 | 416 576 | 4 | 3 | 3 | 6 |
| | | 1997.. | 1 025 706 | 420 617 | 124 435 | 480 654 | 847 923 | 379 163 | 98 056 | 370 704 | X | X | X | X |
| 311941 | Mayonnaise, dressing, & other prepared sauce mfg | 1998.. | 430 668 | 224 534 | 35 682 | 170 451 | 413 002 | 216 321 | 34 311 | 162 371 | 1 | 1 | 2 | 3 |
| | | 1997.. | 381 485 | 186 582 | 37 176 | 157 727 | 370 715 | 190 634 | 41 439 | 138 642 | X | X | X | X |
| 311942 | Spice & extract mfg | 1998.. | 605 971 | 237 779 | 96 181 | 272 011 | 584 750 | 246 216 | 84 329 | 254 205 | 6 | 5 | 4 | 9 |
| | | 1997.. | 644 221 | 234 035 | 87 259 | 322 927 | 477 208</td | | | | | | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|---------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|---|----|---|---|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | | | | | | | | | A | B | C | D | |
| 311 | Food mfg—Con. | | | | | | | | | | | | | |
| 3119 | Other food mfg—Con. | | | | | | | | | | | | | |
| 31199 | All other food mfg—Con. | | | | | | | | | | | | | |
| 311999 | All other miscellaneous food mfg | 1998.. | 810 206 | 333 384 | 47 517 | 429 305 | 783 153 | 326 350 | 65 638 | 391 165 | 1 | 1 | 1 | 1 |
| | | 1997.. | 774 911 | 336 840 | 57 315 | 380 756 | 721 225 | 304 288 | 64 029 | 352 908 | X | X | X | X |
| 312 | Beverage & tobacco product mfg | 1998.. | 14 876 437 | 4 156 730 | 3 813 585 | 6 906 122 | 14 245 750 | 3 835 810 | 3 619 143 | 6 790 796 | 1 | 2 | 1 | 1 |
| | | 1997.. | 14 188 964 | 3 838 983 | 3 634 604 | 6 715 377 | 13 303 012 | 3 542 169 | 2 990 065 | 6 770 778 | X | X | X | X |
| 3121 | Beverage mfg | 1998.. | 8 249 621 | 3 400 016 | 3 508 998 | 1 340 608 | 7 605 665 | 3 046 942 | 3 282 988 | 1 275 734 | 1 | 2 | 1 | 2 |
| | | 1997.. | 7 623 147 | 3 046 440 | 3 294 121 | 1 282 586 | 6 842 152 | 2 833 512 | 2 715 859 | 1 292 712 | X | X | X | X |
| 31211 | Soft drink & ice mfg | 1998.. | 1 399 504 | 723 317 | 48 967 | 627 220 | 1 358 044 | 684 524 | 45 702 | 627 819 | 2 | 3 | 1 | 2 |
| | | 1997.. | 1 369 986 | 691 884 | 45 823 | 632 279 | 1 304 456 | 671 626 | 40 799 | 592 031 | X | X | X | X |
| 312111 | Soft drink mfg | 1998.. | 1 331 193 | 684 882 | 47 552 | 598 758 | 1 282 005 | 650 747 | 44 234 | 587 024 | 2 | 3 | 1 | 2 |
| | | 1997.. | 1 295 679 | 659 217 | 44 446 | 592 016 | 1 248 475 | 638 966 | 39 283 | 570 226 | X | X | X | X |
| 312112 | Bottled water mfg | 1998.. | 53 890 | 33 937 | 909 | 19 045 | 62 856 | 28 366 | 966 | 33 524 | 5 | 9 | 8 | 5 |
| | | 1997.. | 61 314 | 27 420 | 900 | 32 994 | 42 071 | 26 479 | 913 | 14 679 | X | X | X | X |
| 312113 | Ice mfg | 1998.. | 14 420 | 4 498 | 506 | 9 416 | 13 183 | 5 410 | 502 | 7 271 | 6 | 18 | 1 | 5 |
| | | 1997.. | 12 993 | 5 247 | 477 | 7 269 | 13 910 | 6 181 | 603 | 7 126 | X | X | X | X |
| 31212 | Breweries | 1998.. | 530 080 | 66 830 | 181 605 | 281 645 | 535 673 | 75 175 | 183 139 | 277 359 | 1 | 1 | 1 | 1 |
| | | 1997.. | 537 139 | 76 101 | 183 945 | 277 093 | 590 712 | 80 484 | 181 715 | 328 513 | X | X | X | X |
| 312120 | Breweries | 1998.. | 530 080 | 66 830 | 181 605 | 281 645 | 535 673 | 75 175 | 183 139 | 277 359 | 1 | 1 | 1 | 1 |
| | | 1997.. | 537 139 | 76 101 | 183 945 | 277 093 | 590 712 | 80 484 | 181 715 | 328 513 | X | X | X | X |
| 312123 | Wineries | 1998.. | 4 285 257 | 1 219 396 | 2 768 277 | 297 584 | 3 791 867 | 947 173 | 2 609 594 | 235 100 | 2 | 6 | 1 | 6 |
| | | 1997.. | 3 772 684 | 934 817 | 2 607 160 | 230 707 | 3 143 103 | 856 125 | 2 055 239 | 231 739 | X | X | X | X |
| 312130 | Wineries | 1998.. | 4 285 257 | 1 219 396 | 2 768 277 | 297 584 | 3 791 867 | 947 173 | 2 609 594 | 235 100 | 2 | 6 | 1 | 6 |
| | | 1997.. | 3 772 684 | 934 817 | 2 607 160 | 230 707 | 3 143 103 | 856 125 | 2 055 239 | 231 739 | X | X | X | X |
| 31214 | Distilleries | 1998.. | 2 034 780 | 1 390 473 | 510 148 | 134 159 | 1 920 081 | 1 340 071 | 444 553 | 135 457 | 1 | 1 | 1 | 2 |
| | | 1997.. | 1 943 338 | 1 343 638 | 457 193 | 142 507 | 1 803 881 | 1 225 346 | 438 106 | 140 429 | X | X | X | X |
| 312140 | Distilleries | 1998.. | 2 034 780 | 1 390 473 | 510 148 | 134 159 | 1 920 081 | 1 340 071 | 444 553 | 135 457 | 1 | 1 | 1 | 2 |
| | | 1997.. | 1 943 338 | 1 343 638 | 457 193 | 142 507 | 1 803 881 | 1 225 346 | 438 106 | 140 429 | X | X | X | X |
| 3122 | Tobacco mfg | 1998.. | 6 626 816 | 756 714 | 304 588 | 5 565 514 | 6 640 085 | 788 868 | 336 155 | 5 515 062 | 1 | 1 | 1 | 1 |
| | | 1997.. | 6 565 817 | 792 543 | 304 483 | 5 432 791 | 6 460 860 | 708 588 | 274 206 | 5 478 066 | X | X | X | X |
| 31221 | Tobacco stemming & redrying | 1998.. | 566 468 | 249 715 | 185 361 | 131 392 | 671 263 | 299 617 | 205 769 | 165 877 | 1 | 1 | 1 | 1 |
| | | 1997.. | 786 758 | 302 522 | 208 324 | 275 912 | 701 065 | 263 696 | 137 202 | 300 167 | X | X | X | X |
| 312210 | Tobacco stemming & redrying | 1998.. | 566 468 | 249 715 | 185 361 | 131 392 | 671 263 | 299 617 | 205 769 | 165 877 | 1 | 1 | 1 | 1 |
| | | 1997.. | 786 758 | 302 522 | 208 324 | 275 912 | 701 065 | 263 696 | 137 202 | 300 167 | X | X | X | X |
| 31222 | Tobacco product mfg | 1998.. | 6 060 348 | 506 999 | 119 227 | 5 434 122 | 5 968 822 | 489 251 | 130 386 | 5 349 185 | 1 | 1 | 1 | 1 |
| | | 1997.. | 5 779 059 | 490 021 | 132 159 | 5 156 879 | 5 759 795 | 444 892 | 137 004 | 5 177 899 | X | X | X | X |
| 312221 | Cigarette mfg | 1998.. | 5 471 695 | 367 952 | 5 030 423 | 5 504 339 | 392 744 | 91 637 | 5 019 958 | 5 026 214 | X | X | X | X |
| | | 1997.. | 5 504 339 | 392 744 | 91 637 | 5 019 958 | 372 439 | 103 878 | 5 026 214 | X | X | X | X | |
| 312229 | Other tobacco product mfg | 1998.. | 588 653 | 139 047 | 45 907 | 403 699 | 464 483 | 96 507 | 38 749 | 329 227 | 1 | 1 | 1 | 1 |
| | | 1997.. | 274 720 | 97 277 | 40 522 | 136 921 | 257 264 | 72 453 | 33 126 | 151 685 | X | X | X | X |
| 313 | Textile mills | 1998.. | 6 683 285 | 2 821 317 | 1 816 357 | 2 045 611 | 6 580 960 | 2 554 411 | 1 898 130 | 2 128 419 | 1 | 2 | 1 | 2 |
| | | 1997.. | 6 665 140 | 2 594 008 | 1 847 334 | 2 223 798 | 6 709 811 | 2 649 201 | 1 929 137 | 2 131 087 | X | X | X | X |
| 3131 | Fiber, yarn, & thread mills | 1998.. | 1 079 345 | 479 836 | 236 168 | 363 342 | 1 039 558 | 368 253 | 222 475 | 448 830 | 1 | 2 | 1 | 2 |
| | | 1997.. | 1 091 166 | 379 179 | 241 864 | 470 123 | 1 097 457 | 412 833 | 266 304 | 418 320 | X | X | X | X |
| 31311 | Fiber, yarn, & thread mills | 1998.. | 1 079 345 | 479 836 | 236 168 | 363 342 | 1 039 558 | 368 253 | 222 475 | 448 830 | 1 | 2 | 1 | 2 |
| 313111 | Yarn spinning mills | 1998.. | 683 105 | 302 256 | 157 001 | 223 847 | 637 507 | 239 993 | 146 009 | 251 505 | 1 | 2 | 2 | 3 |
| 313112 | Yarn texturing, throwing, & twisting mills | 1998.. | 345 100 | 156 933 | 62 207 | 125 959 | 348 257 | 106 234 | 58 026 | 183 997 | 2 | 5 | 1 | 2 |
| | | 1997.. | 350 768 | 110 475 | 60 734 | 179 559 | 333 589 | 133 795 | 56 927 | 142 867 | X | X | X | X |
| 313113 | Thread mills | 1998.. | 51 141 | 20 646 | 16 959 | 13 536 | 53 795 | 22 027 | 18 441 | 13 327 | 1 | 1 | 1 | 1 |
| | | 1997.. | 53 028 | 21 510 | 17 955 | 13 563 | 51 737 | 19 688 | 18 076 | 13 973 | X | X | X | X |
| 3132 | Fabric mills | 1998.. | 3 863 722 | 1 627 426 | 1 183 593 | 1 052 703 | 3 885 489 | 1 537 147 | 1 250 032 | 1 098 310 | 1 | 2 | 1 | 1 |
| | | 1997.. | 3 884 704 | 1 563 555 | 1 221 963 | 1 099 186 | 3 959 076 | 1 584 544 | 1 278 816 | 1 095 716 | X | X | X | X |
| 31321 | Broadwoven fabric mills | 1998.. | 2 435 030 | 1 019 666 | 839 015 | 576 350 | 2 385 094 | 942 509 | 869 420 | 573 164 | 1 | 2 | 1 | 1 |
| 313210 | Broadwoven fabric mills | 1998.. | 2 379 954 | 964 470 | 830 161 | 585 323 | 2 512 722 | 1 010 343 | 888 137 | 614 242 | X | X | X | X |
| 31322 | Narrow fabric mills & schiffli machine embroidery | 1998.. | 273 342 | 114 418 | 67 802 | 91 121 | 281 535 | 113 752 | 73 669 | 94 113 | 4 | 6 | 3 | 4 |
| | | 1997.. | 288 909 | 115 532 | 76 817 | 96 560 | 277 620 | 111 154 | 80 481 | 85 985 | X | X | X | X |
| 313221 | Narrow fabric mills | 1998.. | 245 713 | 101 633 | 61 467 | 82 613 | 251 525 | 99 652 | 68 800 | 85 072 | 5 | 6 | 4 | 5 |
| | | 1997.. | 256 463 | 101 317 | 69 331 | 85 815 | 243 379 | 97 514 | 72 568 | 73 297 | X | X | X | X |
| 313222 | Schiffli machine embroidery | 1998.. | 27 628 | 12 786 | 6 335 | 8 508 | 30 010 | 14 100 | 6 869 | 9 041 | 9 | 18 | 6 | 5 |
| | | 1997.. | 32 446 | 14 215 | 7 486 | 10 745 | 34 241 | 13 640 | 7 913 | 12 688 | X | X | X | X |
| 31323 | Nonwoven fabric mills | 1998.. | 582 001 | 306 359 | 94 584 | 181 058 | 611 262 | 304 244 | 109 976 | 197 043 | 1 | 2 | 1 | 3 |
| 313230 | Nonwoven fabric mills | 1998.. | 596 244 | 309 471 | 113 595 | 173 178 | 568 276 | 291 595 | 100 728 | 175 953 | X | X | X | X |
| 31324 | Knit fabric mills | 1998.. | 573 349 | 186 982 | 113 595 | 173 178 | 568 276 | 291 595 | 100 728 | 175 953 | X | X | X | X |
| 313241 | Weft knit fabric mills | 1998.. | 619 597 | 174 082 | 201 390 | 244 125 | 600 458 | 171 452 | 209 470 | 219 536 | X | X | X | X |
| 313249 | Other knit fabric & lace mills | 1998.. | 264 204 | 90 168 | 73 285 | 100 751 | 292 602 | 77 531 | 89 699 | 125 372 | 6 | 17 | 1 | 3 |
| | | 1997.. | 284 340 | 68 788 | 88 810 | 126 742 | 262 300 | 70 669 | 90 465 | 101 166 | X | X | X | X |
| 3133 | Textile & fabric finishing & fabric coating mills | 1998.. | 309 145 | 96 814 | 108 907 | 103 424 | 314 996 | 99 111 | 107 268 | 108 617 | 1 | 1 | 1 | 1 |
| | | 1997.. | 335 257 | 105 294 | 112 580 | 117 383 | 338 158 | 100 783 | 119 005 | 118 370 | X | X | X | X |
| 31331 | Textile & fabric finishing mills | 1998.. | 1 740 218 | 714 055 | 396 596 | 629 566 | 1 655 913 | 649 011 | 425 622 | 581 279 | 4 | 5 | 3 | 5 |
| | | 1997.. | 1 689 270 | 651 274 | 383 507 | 654 489 | 1 653 278</ | | | | | | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | |
|------------|-----------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|----|----|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | X | X | X | X |
| 313 | Textile mills—Con. | | | | | | | | | | | | |
| 3133 | Textile & fabric finishing & fabric coating mills—Con. | | | | | | | | | | | | |
| 31332 | Fabric coating mills..... | 325 557 | 136 200 | 43 424 | 145 933 | 328 474 | 148 300 | 45 565 | 134 609 | 5 | 9 | 6 | 6 |
| | 1998.. | 325 557 | 136 200 | 43 424 | 145 933 | 328 474 | 148 300 | 45 565 | 134 609 | X | X | 6 | 6 |
| | 1997.. | 350 244 | 162 436 | 47 384 | 140 424 | 353 523 | 162 210 | 45 952 | 145 361 | 5 | 9 | 6 | 6 |
| 313320 | Fabric coating mills..... | 325 557 | 136 200 | 43 424 | 145 933 | 328 474 | 148 300 | 45 565 | 134 609 | X | X | X | X |
| | 1998.. | 350 244 | 162 436 | 47 384 | 140 424 | 353 523 | 162 210 | 45 952 | 145 361 | X | X | X | X |
| 314 | Textile product mills | 4 424 476 | 1 998 926 | 826 225 | 1 599 326 | 4 285 868 | 1 939 759 | 810 242 | 1 535 868 | 1 | 1 | 2 | 2 |
| | 1998.. | 4 332 009 | 1 954 683 | 832 342 | 1 544 984 | 4 065 327 | 1 773 773 | 781 763 | 1 509 791 | X | X | X | X |
| | 1997.. | 4 332 009 | 1 954 683 | 832 342 | 1 544 984 | 4 065 327 | 1 773 773 | 781 763 | 1 509 791 | X | X | X | X |
| 3141 | Textile furnishings mills | 3 006 981 | 1 393 954 | 632 486 | 980 541 | 2 861 084 | 1 345 211 | 606 811 | 909 062 | 1 | 1 | 2 | 2 |
| | 1998.. | 2 930 417 | 1 363 949 | 620 897 | 945 571 | 2 714 550 | 1 205 301 | 589 306 | 919 943 | X | X | X | X |
| 31411 | Carpet & rug mills | 1 465 243 | 681 677 | 312 652 | 470 914 | 1 394 217 | 647 800 | 295 052 | 451 365 | 1 | 1 | 1 | 1 |
| | 1998.. | 1 471 757 | 684 895 | 304 168 | 482 694 | 1 401 981 | 617 076 | 328 493 | 456 412 | X | X | X | X |
| 314110 | Carpet & rug mills | 1 465 243 | 681 677 | 312 652 | 470 914 | 1 394 217 | 647 800 | 295 052 | 451 365 | 1 | 1 | 1 | 1 |
| | 1997.. | 1 471 757 | 684 895 | 304 168 | 482 694 | 1 401 981 | 617 076 | 328 493 | 456 412 | X | X | X | X |
| 31412 | Curtain & linen mills | 1 541 739 | 712 278 | 319 834 | 509 627 | 1 466 867 | 697 411 | 311 759 | 457 697 | 3 | 2 | 4 | 4 |
| | 1998.. | 1 458 660 | 679 054 | 316 729 | 462 877 | 1 312 569 | 588 225 | 260 813 | 463 531 | X | X | X | X |
| 314121 | Curtain & drapery mills..... | 286 990 | 106 484 | 45 568 | 134 938 | 273 952 | 94 877 | 51 711 | 127 365 | 3 | 6 | 10 | 4 |
| | 1997.. | 266 580 | 90 668 | 51 728 | 124 184 | 251 039 | 81 625 | 48 066 | 121 348 | X | X | X | X |
| 314129 | Other household textile product mills..... | 1 254 748 | 605 794 | 274 265 | 374 689 | 1 192 915 | 602 534 | 260 048 | 330 332 | 3 | 3 | 4 | 5 |
| | 1998.. | 1 192 080 | 588 386 | 265 001 | 338 693 | 1 061 530 | 506 600 | 212 747 | 342 183 | X | X | X | X |
| 3149 | Other textile product mills | 1 417 495 | 604 972 | 193 739 | 618 785 | 1 424 785 | 594 548 | 203 431 | 626 805 | 2 | 3 | 4 | 2 |
| | 1997.. | 1 401 592 | 590 734 | 211 445 | 599 413 | 1 350 777 | 568 472 | 192 457 | 589 848 | X | X | X | X |
| 31491 | Textile bag & canvas mills | 333 760 | 128 208 | 46 751 | 158 800 | 353 280 | 128 603 | 51 433 | 173 243 | 3 | 3 | 5 | 4 |
| | 1998.. | 353 221 | 128 469 | 52 399 | 172 353 | 326 520 | 119 738 | 47 431 | 159 351 | X | X | X | X |
| 314911 | Textile bag mills..... | 143 611 | 49 905 | 18 666 | 75 041 | 153 807 | 51 172 | 20 933 | 81 702 | 2 | 3 | 3 | 3 |
| | 1997.. | 154 171 | 51 022 | 21 043 | 82 106 | 135 988 | 44 113 | 16 733 | 75 142 | X | X | X | X |
| 314912 | Canvas & related product mills | 190 148 | 78 304 | 28 086 | 83 759 | 199 473 | 77 432 | 30 500 | 91 541 | 5 | 4 | 8 | 7 |
| | 1997.. | 199 050 | 77 447 | 31 356 | 90 247 | 190 532 | 75 625 | 30 698 | 84 209 | X | X | X | X |
| 31499 | All other textile product mills | 1 083 736 | 476 763 | 146 988 | 459 985 | 1 071 505 | 465 945 | 151 998 | 453 562 | 3 | 4 | 5 | 3 |
| | 1997.. | 1 048 371 | 462 265 | 159 046 | 427 060 | 1 024 257 | 448 734 | 145 026 | 430 497 | X | X | X | X |
| 314991 | Rope, cordage, & twine mills | 135 975 | 73 863 | 21 226 | 40 887 | 158 409 | 86 095 | 24 620 | 47 694 | 11 | 10 | 22 | 11 |
| | 1997.. | 157 789 | 84 986 | 24 255 | 48 548 | 141 534 | 80 631 | 16 636 | 44 267 | X | X | X | X |
| 314992 | Tire cord & tire fabric mills | 138 800 | 57 775 | 27 338 | 53 688 | 133 577 | 59 965 | 26 288 | 47 324 | 3 | 1 | 2 | 7 |
| | 1997.. | 118 428 | 48 541 | 26 142 | 43 745 | 107 896 | 43 007 | 26 636 | 38 253 | X | X | X | X |
| 314999 | All other miscellaneous textile product mills | 808 960 | 345 125 | 98 425 | 365 410 | 779 519 | 319 886 | 101 090 | 358 544 | 3 | 5 | 6 | 3 |
| | 1997.. | 772 154 | 328 738 | 108 649 | 334 767 | 774 827 | 325 096 | 101 754 | 347 977 | X | X | X | X |
| 315 | Apparel mfg | 9 599 447 | 4 912 969 | 2 027 700 | 2 658 778 | 9 573 414 | 4 769 690 | 2 035 955 | 2 767 769 | 1 | 1 | 1 | 2 |
| | 1997.. | 9 364 422 | 4 526 860 | 2 020 276 | 2 817 286 | 8 937 165 | 4 240 308 | 1 835 198 | 2 861 659 | X | X | X | X |
| 3151 | Apparel knitting mills..... | 1 218 007 | 575 235 | 401 695 | 241 077 | 1 209 793 | 565 038 | 378 112 | 266 643 | 2 | 2 | 6 | 2 |
| | 1997.. | 1 255 178 | 601 512 | 366 975 | 286 691 | 1 229 438 | 568 436 | 378 359 | 282 643 | X | X | X | X |
| 31511 | Hosiery & sock mills | 553 266 | 228 802 | 204 029 | 120 435 | 592 195 | 256 268 | 199 987 | 135 940 | 1 | 2 | 2 | 3 |
| | 1997.. | 602 558 | 268 887 | 194 368 | 139 303 | 602 004 | 256 728 | 210 119 | 135 157 | X | X | X | X |
| 315111 | Sheer hosiery mills | 220 728 | 89 489 | 91 337 | 39 903 | 230 984 | 94 934 | 89 120 | 46 930 | 1 | 3 | 2 | 6 |
| | 1997.. | 243 318 | 101 597 | 93 062 | 48 659 | 257 525 | 102 753 | 106 625 | 48 147 | X | X | X | X |
| 315119 | Other hosiery & sock mills | 332 538 | 139 314 | 112 692 | 80 532 | 361 211 | 161 334 | 110 867 | 89 010 | 2 | 3 | 3 | 3 |
| | 1997.. | 359 240 | 167 290 | 101 306 | 90 644 | 344 479 | 153 975 | 103 494 | 87 010 | X | X | X | X |
| 315159 | Other apparel knitting mills | 664 741 | 346 433 | 197 666 | 120 642 | 617 598 | 308 770 | 178 125 | 130 703 | 3 | 2 | 12 | 2 |
| | 1997.. | 652 620 | 332 625 | 172 607 | 147 388 | 627 434 | 311 708 | 168 240 | 147 486 | X | X | X | X |
| 315191 | Outerwear knitting mills | 552 596 | 306 860 | 144 308 | 101 427 | 527 380 | 262 893 | 151 743 | 112 745 | 2 | 1 | 3 | 2 |
| | 1997.. | 533 464 | 264 003 | 146 110 | 123 351 | 511 656 | 245 323 | 144 213 | 122 120 | X | X | X | X |
| 315192 | Underwear & nightwear knitting mills | 112 145 | 39 572 | 53 357 | 19 215 | 90 218 | 45 877 | 26 382 | 17 959 | 15 | 18 | 45 | 1 |
| | 1997.. | 119 156 | 68 622 | 26 497 | 24 037 | 115 778 | 66 385 | 24 027 | 25 366 | X | X | X | X |
| 3152 | Cut & sew apparel mfg | 7 628 815 | 3 934 794 | 1 538 604 | 2 155 417 | 7 599 300 | 3 827 332 | 1 562 340 | 2 209 628 | 1 | 2 | 1 | 2 |
| | 1997.. | 7 337 617 | 3 537 460 | 1 553 605 | 2 246 552 | 6 946 314 | 3 280 187 | 1 361 249 | 2 304 878 | X | X | X | X |
| 31521 | Cut & sew apparel contractors | 494 459 | 134 654 | 84 745 | 275 059 | 504 271 | 133 982 | 98 645 | 271 645 | 4 | 8 | 5 | 4 |
| | 1997.. | 538 075 | 133 379 | 107 486 | 297 210 | 543 129 | 110 895 | 81 429 | 350 805 | X | X | X | X |
| 315211 | Men's & boys' cut & sew apparel contractors | 152 320 | 65 494 | 36 875 | 49 951 | 143 041 | 54 380 | 46 296 | 42 365 | 4 | 3 | 2 | 7 |
| | 1997.. | 122 047 | 41 577 | 45 572 | 34 898 | 126 521 | 41 943 | 39 333 | 45 245 | X | X | X | X |
| 315212 | Women's, girls', & infants' cut & sew apparel contractors | 342 138 | 69 160 | 47 870 | 225 108 | 361 230 | 79 602 | 52 348 | 229 280 | 5 | 14 | 8 | 5 |
| | 1997.. | 416 028 | 91 802 | 61 914 | 262 312 | 416 608 | 68 952 | 42 096 | 305 560 | X | X | X | X |
| 31522 | Men's & boys' cut & sew apparel mfg | 2 806 439 | 1 430 269 | 578 300 | 797 870 | 2 728 169 | 1 398 168 | 586 763 | 743 239 | 1 | 1 | 2 | 1 |
| | 1997.. | 2 776 760 | 1 413 462 | 610 011 | 753 287 | 2 589 696 | 1 314 794 | 511 638 | 763 264 | X | X | X | X |
| 315221 | Men's & boys' cut & sew underwear & nightwear mfg | 110 766 | 46 185 | 24 013 | 40 569 | 102 332 | 44 285 | 23 437 | 34 610 | 2 | 2 | 2 | 2 |
| | 1997.. | 135 099 | 71 946 | 30 132 | 33 021 | 121 359 | 57 214 | 30 144 | 34 001 | X | X | X | X |
| 315222 | Men's & boys' cut & sew suit, coat, & overcoat mfg | 381 870 | 190 482 | 77 533 | 113 855 | 367 119 | 171 426 | 86 323 | 109 370 | 2 | 3 | 3 | 1 |
| | 1997.. | 434 118 | 214 972 | 107 759 | 111 387 | 401 469 | 193 457 | 80 776 | 127 236 | X | X | X | X |
| 315223 | Men's & boys' cut & sew shirt (exc work shirt) mfg | 835 647 | 495 541 | 164 550 | 175 556 | 808 959 | 493 413 | 158 670 | 156 876 | 2 | 3 | 4 | 3 |
| | 1997.. | 749 159 | 439 072 | 156 378 | 153 709 | 761 272 | 454 128 | 136 385 | 170 759 | X | X | X | X |
| 315224 | Men's & boys' cut & sew trouser, slack, & jean mfg | 781 424 | 362 473 | 201 440 | 217 511 | 799 415 | 379 640 | 207 968 | 211 808 | 1 | 1 | 1 | 1 |
| | 1997.. | 746 677 | 344 998 | 197 084 | 204 595 | 645 255 | 306 079 | 153 920 | 185 256 | X | X | X | X |
| 315225 | Men's & boys' cut & sew work clothing mfg | 307 538 | 136 927 | 52 294 | 118 317 | 276 239 | 123 986 | 48 514 | 103 739 | 5 | 6 | 6 | 7 |
| | 1997.. | 289 034 | 127 598 | 54 973 | 106 463 | 249 557 | 107 992 | 41 068 | 100 497 | X | X | X | X |
| 315228 | Men's & boys' cut & sew other outerwear mfg</ | | | | | | | | | | | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|----|----|----|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | A | B | C | D | E | F | G | H | A | B | C | D | |
| 315 | Apparel mfg—Con. | | | | | | | | | | | | | |
| 3152 | Cut & sew apparel mfg—Con. | | | | | | | | | | | | | |
| 31523 | Women's & girls' cut & sew apparel mfg | 1998.. | 3 878 764 | 2 074 064 | 794 637 | 1 010 063 | 3 925 255 | 2 059 319 | 803 299 | 1 062 637 | 1 | 1 | 1 | 1 |
| | | 1997.. | 3 567 510 | 1 732 248 | 763 789 | 1 071 473 | 3 398 916 | 1 630 608 | 697 007 | 1 071 301 | X | X | X | X |
| 315231 | Women's & girls' cut/sew lingerie & nightwear mfg | 1998.. | 618 517 | 322 822 | 96 434 | 199 261 | 636 539 | 321 703 | 108 160 | 206 676 | 3 | 4 | 6 | 3 |
| | | 1997.. | 664 564 | 335 846 | 108 034 | 220 684 | 770 162 | 418 750 | 113 431 | 237 981 | X | X | X | X |
| 315232 | Women's & girls' cut & sew blouse & shirt mfg | 1998.. | 983 642 | 658 505 | 161 551 | 163 586 | 981 061 | 611 522 | 173 056 | 196 482 | 1 | 1 | 1 | 3 |
| | | 1997.. | 568 836 | 268 558 | 131 915 | 168 363 | 505 535 | 225 149 | 111 339 | 169 047 | X | X | X | X |
| 315233 | Women's & girls' cut & sew dress mfg | 1998.. | 637 402 | 273 524 | 153 280 | 210 598 | 661 233 | 275 523 | 159 978 | 225 732 | 1 | 1 | 2 | 2 |
| | | 1997.. | 625 142 | 242 075 | 168 169 | 214 898 | 577 605 | 199 831 | 147 644 | 230 130 | X | X | X | X |
| 315234 | Women's & girls' cut & sew suit, coat, skirt mfg | 1998.. | 627 189 | 308 896 | 158 315 | 159 978 | 655 238 | 337 950 | 162 492 | 154 795 | 2 | 2 | 1 | 3 |
| | | 1997.. | 632 789 | 350 065 | 115 775 | 166 949 | 550 863 | 284 663 | 102 139 | 164 061 | X | X | X | X |
| 315239 | Women's & girls' cut & sew other outerwear mfg | 1998.. | 1 012 014 | 510 318 | 225 057 | 276 640 | 991 184 | 512 621 | 199 612 | 278 951 | 1 | 2 | 2 | 3 |
| | | 1997.. | 1 076 179 | 535 704 | 239 896 | 300 579 | 994 751 | 502 215 | 222 454 | 270 082 | X | X | X | X |
| 31529 | Other cut & sew apparel mfg | 1998.. | 449 154 | 295 806 | 80 923 | 72 425 | 441 604 | 235 863 | 73 634 | 132 108 | 8 | 22 | 10 | 64 |
| | | 1997.. | 455 272 | 258 371 | 72 319 | 124 582 | 414 573 | 223 890 | 71 175 | 119 508 | X | X | X | X |
| 315291 | Infants' cut & sew apparel mfg | 1998.. | 141 538 | 67 357 | 36 778 | 37 404 | 170 829 | 94 780 | 38 933 | 37 116 | 15 | 22 | 4 | 14 |
| | | 1997.. | 99 677 | 37 322 | 33 350 | 29 005 | 97 838 | 41 681 | 29 149 | 27 008 | X | X | X | X |
| 315292 | Fur & leather apparel mfg | 1998.. | 36 560 | 21 255 | 6 816 | 8 489 | 36 220 | 19 388 | 7 754 | 9 077 | 2 | 5 | 7 | 3 |
| | | 1997.. | 37 461 | 20 543 | 7 908 | 9 010 | 38 059 | 19 644 | 7 908 | 10 507 | X | X | X | X |
| 315299 | All other cut & sew apparel mfg | 1998.. | 271 056 | 207 194 | 37 330 | 26 532 | 234 556 | 121 695 | 26 947 | 85 915 | 10 | 30 | 22 | A |
| | | 1997.. | 318 134 | 200 506 | 31 061 | 86 567 | 278 676 | 162 565 | 34 118 | 81 993 | X | X | X | X |
| 3159 | Apparel accessories & other apparel mfg | 1998.. | 752 625 | 402 941 | 87 401 | 262 283 | 764 322 | 377 320 | 95 504 | 291 497 | 5 | 2 | 4 | 10 |
| | | 1997.. | 771 627 | 387 888 | 99 696 | 284 043 | 761 413 | 391 685 | 95 590 | 274 138 | X | X | X | X |
| 31599 | Apparel accessories & other apparel mfg | 1998.. | 752 625 | 402 941 | 87 401 | 262 283 | 764 322 | 377 320 | 95 504 | 291 497 | 5 | 2 | 4 | 10 |
| | | 1997.. | 771 627 | 387 888 | 99 696 | 284 043 | 761 413 | 391 685 | 95 590 | 274 138 | X | X | X | X |
| 315991 | Hat, cap, & millinery mfg | 1998.. | 194 433 | 91 228 | 23 490 | 79 715 | 178 228 | 83 613 | 24 367 | 70 247 | 2 | 2 | 1 | 4 |
| | | 1997.. | 188 220 | 87 983 | 24 973 | 75 264 | 198 023 | 95 592 | 24 153 | 78 278 | X | X | X | X |
| 315992 | Glove & mitten mfg | 1998.. | 93 014 | 76 394 | 10 951 | 5 669 | 141 928 | 86 704 | 16 045 | 39 179 | 40 | 8 | 33 | A |
| | | 1997.. | 132 362 | 83 575 | 15 384 | 33 403 | 125 943 | 81 151 | 16 865 | 27 927 | X | X | X | X |
| 315993 | Men's & boys' neckwear mfg | 1998.. | 101 755 | 63 906 | 10 501 | 27 349 | 91 120 | 51 652 | 11 799 | 27 669 | 2 | 1 | 7 | 3 |
| | | 1997.. | 91 176 | 51 830 | 11 697 | 27 649 | 89 329 | 49 276 | 12 173 | 27 880 | X | X | X | X |
| 315999 | Other apparel accessories & other apparel mfg | 1998.. | 363 422 | 171 413 | 42 460 | 149 550 | 353 046 | 155 351 | 43 293 | 154 403 | 2 | 3 | 1 | 2 |
| | | 1997.. | 359 869 | 164 500 | 47 642 | 147 727 | 348 118 | 165 666 | 42 399 | 140 053 | X | X | X | X |
| 316 | Leather & allied product mfg | 1998.. | 1 769 616 | 970 603 | 286 835 | 512 179 | 1 748 360 | 913 694 | 313 877 | 520 789 | 2 | 2 | 3 | 3 |
| | | 1997.. | 1 749 213 | 921 005 | 314 839 | 513 369 | 1 720 061 | 892 649 | 327 202 | 500 210 | X | X | X | X |
| 3161 | Leather & hide tanning & finishing | 1998.. | 394 502 | 143 517 | 158 689 | 92 296 | 395 267 | 131 193 | 171 049 | 93 025 | 4 | 8 | 3 | 6 |
| | | 1997.. | 392 689 | 129 220 | 170 368 | 93 101 | 411 292 | 133 701 | 176 404 | 101 187 | X | X | X | X |
| 31611 | Leather & hide tanning & finishing | 1998.. | 394 502 | 143 517 | 158 689 | 92 296 | 395 267 | 131 193 | 171 049 | 93 025 | 4 | 8 | 3 | 6 |
| | | 1997.. | 392 689 | 129 220 | 170 368 | 93 101 | 411 292 | 133 701 | 176 404 | 101 187 | X | X | X | X |
| 316110 | Leather & hide tanning & finishing | 1998.. | 394 502 | 143 517 | 158 689 | 92 296 | 395 267 | 131 193 | 171 049 | 93 025 | 4 | 8 | 3 | 6 |
| | | 1997.. | 392 689 | 129 220 | 170 368 | 93 101 | 411 292 | 133 701 | 176 404 | 101 187 | X | X | X | X |
| 3162 | Footwear mfg | 1998.. | 805 337 | 519 314 | 67 487 | 218 536 | 839 294 | 530 616 | 78 038 | 230 640 | 4 | 4 | 8 | 7 |
| | | 1997.. | 861 663 | 539 746 | 82 567 | 239 350 | 818 516 | 505 086 | 82 927 | 230 503 | X | X | X | X |
| 31621 | Footwear mfg | 1998.. | 805 337 | 519 314 | 67 487 | 218 536 | 839 294 | 530 616 | 78 038 | 230 640 | 4 | 4 | 8 | 7 |
| | | 1997.. | 861 663 | 539 746 | 82 567 | 239 350 | 818 516 | 505 086 | 82 927 | 230 503 | X | X | X | X |
| 316211 | Rubber & plastics footwear mfg | 1998.. | 217 992 | 151 334 | 20 118 | 46 540 | 214 979 | 150 126 | 21 072 | 43 781 | 2 | 1 | 2 | 9 |
| | | 1997.. | 177 316 | 112 667 | 20 938 | 43 711 | 162 484 | 105 831 | 18 996 | 37 657 | X | X | X | X |
| 316212 | House slipper mfg | 1998.. | 55 345 | 25 548 | 3 160 | 26 637 | 58 806 | 32 683 | 3 445 | 22 679 | 1 | 2 | 3 | 1 |
| | | 1997.. | 65 207 | 36 525 | 6 164 | 22 518 | 55 172 | 27 913 | 5 538 | 21 721 | X | X | X | X |
| 316213 | Men's footwear (except athletic) mfg | 1998.. | 436 022 | 296 021 | 28 059 | 111 942 | 438 749 | 285 870 | 31 725 | 121 154 | 4 | 3 | 12 | 8 |
| | | 1997.. | 494 724 | 330 397 | 33 470 | 130 857 | 461 290 | 301 219 | 35 120 | 124 951 | X | X | X | X |
| 316214 | Women's footwear (except athletic) mfg | 1998.. | 47 949 | 22 075 | 9 130 | 16 745 | 85 207 | 38 930 | 16 779 | 29 498 | 60 | 71 | 41 | 60 |
| | | 1997.. | 84 796 | 38 738 | 16 933 | 29 125 | 94 204 | 44 278 | 18 392 | 31 534 | X | X | X | X |
| 316219 | Other footwear mfg | 1998.. | 48 028 | 24 337 | 7 019 | 16 672 | 41 553 | 23 008 | 5 017 | 13 529 | 11 | 5 | 27 | 15 |
| | | 1997.. | 39 620 | 21 419 | 5 062 | 13 139 | 45 366 | 25 845 | 4 881 | 14 640 | X | X | X | X |
| 3169 | Other leather & allied product mfg | 1998.. | 569 778 | 307 771 | 60 659 | 201 347 | 513 799 | 251 885 | 64 790 | 197 124 | 1 | 1 | 4 | 2 |
| | | 1997.. | 494 861 | 252 039 | 61 904 | 180 918 | 490 253 | 253 862 | 67 871 | 168 520 | X | X | X | X |
| 316991 | Luggage mfg | 1998.. | 256 197 | 159 400 | 17 730 | 79 067 | 217 075 | 113 430 | 21 509 | 82 136 | 1 | 1 | 2 | 1 |
| | | 1997.. | 213 590 | 113 493 | 20 057 | 80 040 | 209 726 | 106 330 | 26 092 | 77 304 | X | X | X | X |
| 316992 | Women's handbag & purse mfg | 1998.. | 69 801 | 26 241 | 8 472 | 35 088 | 60 079 | 24 320 | 7 854 | 27 905 | 2 | 3 | 6 | 1 |
| | | 1997.. | 53 370 | 28 999 | 8 312 | 16 059 | 61 368 | 34 892 | 6 433 | 20 043 | X | X | X | X |
| 316993 | Personal leather good (except women's handbag & purse) mfg | 1998.. | 75 606 | 32 705 | 9 475 | 33 425 | 76 504 | 34 479 | 9 319 | 32 705 | 2 | 1 | 7 | 1 |
| | | 1997.. | 64 132 | 28 057 | 7 266 | 28 809 | 63 936 | 29 227 | 8 064 | 26 645 | X | X | X | X |
| 316999 | All other leather good mfg | 1998.. | 168 174 | 89 425 | 24 981 | 53 767 | 160 142 | 79 655 | 26 108 | 54 378 | 2 | 4 | 8 | 7 |
| | | 1997.. | 163 769 | 81 490 | 26 269 | 56 010 | 155 223 | 83 413 | 27 282 | 44 528 | X | X | X | X |
| 321 | Wood product mfg | 1998.. | 9 472 175 | 3 452 787 | 1 928 705 | 4 090 683 | 9 537 418 | 3 478 384 | 1 933 971 | 4 125 063 | 1 | 1 | 2 | 1 |
| | | 1997.. | 9 499 865 | 3 458 365 | 1 919 877 | 4 121 623 | 9 862 653 | 3 227 605 | 1 822 141 | 4 381 2907 | X | X | X | X |

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | | |
|------------|------------------------------------------------------|--------------------|------------|-------------------|-----------------|----------------------------------|--------------------|-----------|-------------------|------------------------------------------------------------------------|----------------------------------|----|----|----|---|
| | | Total ¹ | | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | A | B | C | D | | |
| 321 | Wood product mfg—Con. | | | | | | | | | | | | | | |
| 3211 | Sawmills & wood preservation | 3 586 180 | 1 580 450 | 851 500 | 1 154 229 | 3 767 256 | 1 622 210 | 898 836 | 1 246 210 | 2 | 3 | 5 | 4 | | |
| 32111 | Sawmills & wood preservation | 1998.. | 3 726 314 | 1 605 071 | 875 802 | 1 245 441 | 3 446 983 | 1 482 932 | 814 848 | 1 149 203 | X | X | | | |
| 321113 | Sawmills | 1998.. | 3 586 180 | 1 580 450 | 851 500 | 1 154 229 | 3 767 256 | 1 622 210 | 898 836 | 1 246 210 | 2 | 3 | 5 | 4 | |
| 321113 | Sawmills | 1997.. | 3 726 314 | 1 605 071 | 875 802 | 1 245 441 | 3 446 983 | 1 482 932 | 814 848 | 1 149 203 | X | X | | | |
| 321114 | Wood preservation | 1998.. | 2 978 074 | 1 172 565 | 704 596 | 1 100 913 | 3 153 934 | 1 216 485 | 765 080 | 1 172 369 | 2 | 3 | 4 | 4 | |
| 321114 | Wood preservation | 1997.. | 3 115 815 | 1 200 002 | 742 973 | 1 172 840 | 2 898 448 | 1 125 918 | 695 632 | 1 076 898 | X | X | | | |
| 3212 | Veneer, plywood, & engineered wood product mfg | 1998.. | 608 105 | 407 885 | 146 905 | 53 316 | 613 322 | 405 725 | 133 756 | 73 841 | 6 | 6 | 17 | 28 | |
| 3212 | Veneer, plywood, & engineered wood product mfg | 1997.. | 610 499 | 405 069 | 132 829 | 72 601 | 548 535 | 357 014 | 119 216 | 72 305 | X | X | | | |
| 32121 | Veneer, plywood, & engineered wood product mfg | 1998.. | 1 711 966 | 603 354 | 193 321 | 915 291 | 1 715 642 | 627 070 | 170 110 | 918 461 | 2 | 1 | 4 | 3 | |
| 32121 | Veneer, plywood, & engineered wood product mfg | 1997.. | 1 739 405 | 630 892 | 184 393 | 924 120 | 1 597 045 | 571 782 | 176 919 | 848 344 | X | X | | | |
| 321211 | Hardwood veneer & plywood mfg | 1998.. | 415 921 | 177 006 | 52 462 | 186 453 | 425 205 | 163 652 | 43 782 | 217 771 | 7 | 2 | 12 | 16 | |
| 321212 | Softwood veneer & plywood mfg | 1998.. | 427 066 | 163 776 | 44 518 | 218 772 | 396 497 | 159 496 | 37 551 | 199 450 | X | X | | | |
| 321213 | Engineered wood member (except truss) mfg | 1998.. | 372 099 | 83 322 | 74 476 | 214 301 | 393 620 | 120 048 | 64 413 | 209 159 | 1 | 7 | 4 | 1 | |
| 321213 | Engineered wood member (except truss) mfg | 1997.. | 414 530 | 124 772 | 78 206 | 211 552 | 389 826 | 117 037 | 80 038 | 192 751 | X | X | | | |
| 321214 | Truss mfg | 1998.. | 299 103 | 79 834 | 19 546 | 199 723 | 280 301 | 76 065 | 187 581 | 2 | 5 | 8 | 3 | | |
| 321214 | Truss mfg | 1997.. | 279 757 | 75 469 | 16 244 | 188 044 | 259 220 | 69 836 | 15 498 | 173 886 | X | X | | | |
| 321219 | Reconstituted wood product mfg | 1998.. | 470 469 | 170 960 | 32 764 | 266 744 | 458 322 | 179 209 | 30 922 | 248 190 | 1 | 1 | 2 | 1 | |
| 321219 | Reconstituted wood product mfg | 1997.. | 459 825 | 178 764 | 31 084 | 249 977 | 427 310 | 153 898 | 32 666 | 240 746 | X | X | | | |
| 3219 | Other wood product mfg | 1998.. | 4 174 029 | 1 268 983 | 883 883 | 2 021 163 | 4 054 520 | 1 229 104 | 865 025 | 1 960 391 | 1 | 2 | 2 | 1 | |
| 32191 | Millwork | 1998.. | 4 034 146 | 1 222 402 | 869 682 | 1 952 062 | 3 818 625 | 1 172 891 | 830 374 | 1 815 360 | X | X | | | |
| 32191 | Millwork | 1997.. | 2 487 905 | 743 780 | 599 636 | 1 144 489 | 2 502 627 | 748 847 | 603 486 | 1 150 295 | 1 | 3 | 2 | 1 | |
| 321911 | Wood window & door mfg | 1998.. | 2 479 819 | 741 758 | 599 318 | 1 138 743 | 2 341 574 | 709 080 | 576 466 | 1 056 028 | X | X | | | |
| 321911 | Wood window & door mfg | 1997.. | 1 023 417 | 229 233 | 243 357 | 550 828 | 1 032 938 | 221 566 | 245 816 | 565 556 | 1 | 2 | 2 | 1 | |
| 321912 | Cut stock, resawing lumber, & planing | 1998.. | 806 301 | 328 953 | 191 974 | 285 374 | 827 955 | 347 862 | 185 350 | 294 742 | 3 | 6 | 5 | 4 | |
| 321912 | Cut stock, resawing lumber, & planing | 1997.. | 824 574 | 343 877 | 183 934 | 296 763 | 776 344 | 331 636 | 170 724 | 273 984 | X | X | | | |
| 321918 | Other millwork (including flooring) | 1998.. | 658 188 | 185 595 | 164 306 | 308 287 | 641 734 | 179 418 | 172 320 | 289 996 | 2 | 2 | 2 | 3 | |
| 321918 | Other millwork (including flooring) | 1997.. | 631 003 | 177 562 | 171 414 | 282 027 | 563 535 | 157 174 | 152 559 | 253 802 | X | X | | | |
| 32192 | Wood container & pallet mfg | 1998.. | 388 352 | 109 153 | 60 155 | 219 044 | 357 917 | 91 467 | 61 813 | 204 636 | 2 | 5 | 2 | 1 | |
| 32192 | Wood container & pallet mfg | 1997.. | 359 251 | 92 292 | 61 629 | 205 330 | 333 550 | 88 225 | 59 948 | 185 377 | X | X | | | |
| 321920 | Wood container & pallet mfg | 1998.. | 388 352 | 109 153 | 60 155 | 219 044 | 357 917 | 91 467 | 61 813 | 204 636 | 2 | 5 | 2 | 1 | |
| 321920 | Wood container & pallet mfg | 1997.. | 359 251 | 92 292 | 61 629 | 205 330 | 333 550 | 88 225 | 59 948 | 185 377 | X | X | | | |
| 32199 | All other wood product mfg | 1998.. | 1 297 772 | 416 050 | 224 092 | 657 630 | 1 193 976 | 388 790 | 199 727 | 605 459 | 1 | 1 | 5 | 1 | |
| 321991 | Manufactured home (mobile home) mfg | 1998.. | 408 600 | 75 452 | 66 348 | 266 801 | 371 118 | 60 698 | 59 002 | 251 418 | 1 | 3 | 2 | 1 | |
| 321991 | Manufactured home (mobile home) mfg | 1997.. | 370 836 | 61 290 | 58 898 | 250 648 | 354 014 | 61 094 | 53 380 | 239 540 | X | X | | | |
| 321992 | Prefabricated wood building mfg | 1998.. | 293 580 | 72 662 | 41 123 | 179 795 | 263 931 | 67 681 | 37 017 | 159 233 | 3 | 4 | 5 | 4 | |
| 321992 | Prefabricated wood building mfg | 1997.. | 265 405 | 67 359 | 36 968 | 161 078 | 266 105 | 68 573 | 36 941 | 160 591 | X | X | | | |
| 321999 | All other miscellaneous wood product mfg | 1998.. | 595 592 | 267 937 | 116 621 | 211 033 | 558 927 | 260 411 | 103 708 | 194 809 | 2 | 2 | 9 | 2 | |
| 321999 | All other miscellaneous wood product mfg | 1997.. | 558 835 | 259 703 | 102 869 | 196 263 | 523 382 | 245 919 | 103 639 | 173 824 | X | X | | | |
| 322 | Paper mfg | 1998.. | 15 449 920 | 6 627 627 | 1 409 566 | 7 412 727 | 15 122 006 | 6 284 668 | 1 435 233 | 7 402 104 | 1 | 1 | 1 | 1 | |
| 3221 | Pulp, paper, & paperboard mills | 1998.. | 6 939 478 | 2 986 212 | 548 043 | 3 405 223 | 6 732 486 | 2 783 487 | 555 364 | 3 393 635 | 1 | 1 | 3 | 1 | |
| 3221 | Pulp, paper, & paperboard mills | 1997.. | 6 821 732 | 2 806 659 | 599 688 | 3 415 385 | 6 945 196 | 2 778 799 | 607 319 | 3 559 078 | X | X | | | |
| 32211 | Pulp mills | 1998.. | 498 741 | 246 996 | 27 771 | 223 973 | 490 839 | 255 047 | 25 037 | 210 756 | 2 | 2 | 2 | | |
| 32211 | Pulp mills | 1997.. | 492 665 | 256 019 | 25 048 | 211 598 | 581 600 | 294 093 | 48 752 | 238 755 | X | X | | | |
| 32212 | Paper mills | 1998.. | 498 741 | 246 996 | 27 771 | 223 973 | 490 839 | 255 047 | 25 037 | 210 756 | 2 | 2 | 2 | | |
| 32212 | Paper mills | 1997.. | 492 665 | 256 019 | 25 048 | 211 598 | 581 600 | 294 093 | 48 752 | 238 755 | X | X | | | |
| 322121 | Paper (except newsprint) mills | 1998.. | 4 907 571 | 2 230 140 | 476 986 | 2 200 445 | 4 728 925 | 2 040 442 | 478 824 | 2 203 659 | 1 | 1 | 3 | 1 | |
| 322121 | Paper (except newsprint) mills | 1997.. | 4 819 876 | 2 069 022 | 523 354 | 2 227 500 | 4 812 207 | 2 040 979 | 483 943 | 2 287 285 | X | X | | | |
| 322122 | Newsprint mills | 1998.. | 4 569 121 | 2 163 243 | 469 646 | 1 936 232 | 4 373 108 | 1 964 536 | 469 708 | 1 938 864 | 1 | 1 | 3 | 1 | |
| 322122 | Newsprint mills | 1997.. | 4 460 412 | 1 987 113 | 512 684 | 1 960 616 | 4 413 828 | 1 940 490 | 475 226 | 1 998 112 | X | X | | | |
| 322123 | Paperboard mills | 1998.. | 338 450 | 66 897 | 7 340 | 264 213 | 355 817 | 81 905 | 9 116 | 264 795 | 2 | 5 | 8 | | |
| 322123 | Paperboard mills | 1997.. | 359 464 | 81 909 | 10 670 | 266 885 | 398 379 | 100 489 | 8 717 | 289 173 | X | X | | | |
| 322130 | Paperboard mills | 1998.. | 1 533 166 | 509 075 | 43 286 | 980 805 | 1 512 722 | 481 999 | 51 503 | 979 220 | 1 | 1 | 1 | | |
| 322130 | Paperboard mills | 1997.. | 1 509 191 | 481 618 | 51 286 | 976 287 | 1 551 389 | 443 727 | 74 624 | 1 033 038 | X | X | | | |
| 3222 | Converted paper product mfg | 1998.. | 8 510 442 | 3 641 415 | 861 523 | 4 007 504 | 8 389 520 | 3 501 181 | 879 870 | 4 008 469 | 2 | 2 | 1 | 3 | |
| 3222 | Converted paper product mfg | 1997.. | 8 288 887 | 3 463 475 | 867 251 | 3 956 161 | 8 016 997 | 3 302 581 | 852 663 | 3 861 753 | X | X | | | |
| 322211 | Paperboard container mfg | 1998.. | 4 207 530 | 1 609 862 | 339 817 | 2 257 850 | 4 083 684 | 1 521 566 | 350 185 | 2 211 933 | 3 | 3 | 4 | | |
| 322211 | Paperboard container mfg | 1997.. | 4 078 570 | 1 522 495 | 350 117 | 2 205 958 | 4 024 157 | 1 484 406 | 352 153 | 2 187 598 | X | X | | | |
| 322212 | Corrugated & solid fiber box mfg | 1998.. | 2 254 539 | 654 902 | 112 879 | 1 486 758 | 2 215 230 | 597 265 | 122 764 | 1 495 201 | 3 | 5 | 5 | | |
| 322212 | Corrugated & solid fiber box mfg | 1997.. | 2 211 012 | 599 447 | 122 899 | 1 488 666 | 2 170 576 | 575 626 | 124 362 | 1 470 588 | X | X | | | |
| 322212 | Folding paperboard box mfg | 1998.. | 1 115 737 | 596 910 | 168 399 | 350 428 | 1 137 285 | 596 571 | 178 761 | 361 953 | 1 | 2 | 3 | | |
| 322212 | Folding paperboard box mfg | 1997.. | 1 142 713 | 601 025 | 179 118 | 362 570 | 1 155 925 | 606 555 | 181 638 | 367 732 | X | X | | | |
| 322213 | Setup paperboard box mfg | 1998.. | 78 S | 35 922 | 9 S | 33 606 | 78 S | 31 217 | 9 953 | 36 877 | X | X | | | |
| 322213 | Setup paperboard box mfg | 1997.. | 78 715 | 35 922 | 9 187 | 33 606 | 78 047 | 31 217 | 9 953 | 36 877 | X | X | | | |
| 322214 | Fiber can, tube, drum, & similar products mfg | 1998.. | 173 711 | 43 206 | 11 307 | 119 198 | 172 004 | 41 166 | 9 837 | 121 001 | 4 | 11 | 18 | | |
| 322214 | Fiber can, tube, drum, & similar products mfg | 1997.. | 173 511 | 41 012 | 10 205 | 122 294 | 178 080 | 42 650 | 9 004 | 126 426 | X | X | | | |
| 322215 | Nonfolding sanitary food container mfg | 1998.. | 452 127 | 238 718 | 28 415 | 184 994 | 467 898 | 245 492 | 27 821 | 194 585 | 1 | 3 | 1 | | |
| 322215 | Nonfolding sanitary food container mfg | 1997.. | 472 619 | 245 089 | 28 708 | 198 822 | 441 529 | 228 358 | 27 196 | 185 975 | | | | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | | |
|------------|---------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|-----------|----|----|----|---|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | | |
| | | | | | | | | | | A | B | C | D | | |
| 322 | Paper mfg—Con. | | | | | | | | | | | | | | |
| 3222 | Converted paper product mfg—Con. | | | | | | | | | | | | | | |
| 32222 | Paper bag & coated & treated paper mfg | 1998.. | 2 281 161 | 920 579 | 375 577 | 985 005 | 2 329 016 | 912 070 | 391 247 | 1 025 699 | 1 | 1 | 1 | 2 | |
| | | 1997.. | 2 260 355 | 877 758 | 385 191 | 997 406 | 2 195 712 | 859 999 | 362 733 | 972 980 | X | X | X | X | |
| 322221 | Coated & laminated packaging paper & plastics film mfg | 1998.. | 172 034 | 82 226 | 18 573 | 71 236 | 188 755 | 83 985 | 22 578 | 82 192 | 9 | 4 | 17 | 21 | |
| | | 1997.. | 189 395 | 83 994 | 22 493 | 82 908 | 175 966 | 79 035 | 20 613 | 76 318 | X | X | X | X | |
| 322222 | Coated & laminated paper mfg | 1998.. | 1 357 641 | 542 392 | 278 328 | 536 921 | 1 356 998 | 530 247 | 282 617 | 544 134 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 1 290 846 | 495 765 | 275 387 | 519 694 | 1 259 120 | 501 840 | 259 555 | 497 725 | X | X | X | X | |
| 322223 | Plastics, foil, & coated paper bag mfg | 1998.. | 57 926 | 25 537 | 4 931 | 27 459 | 58 615 | 27 648 | 6 672 | 24 295 | 2 | 2 | 15 | 3 | |
| | | 1997.. | 57 845 | 27 466 | 6 958 | 23 421 | 59 451 | 27 477 | 6 319 | 25 655 | X | X | X | X | |
| 322224 | Uncoated paper & multiwall bag mfg | 1998.. | 401 104 | 150 032 | 31 418 | 219 654 | 426 614 | 148 137 | 34 768 | 243 709 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 427 499 | 148 913 | 34 868 | 243 718 | 413 433 | 142 499 | 31 652 | 239 282 | X | X | X | X | |
| 322225 | Laminated aluminum foil mfg for flexible packaging uses | 1998.. | 211 470 | 87 078 | 34 467 | 89 925 | 217 297 | 91 941 | 35 199 | 90 157 | 2 | 1 | 1 | 4 | |
| | | 1997.. | 213 636 | 91 371 | 35 885 | 86 380 | 204 727 | 78 828 | 35 435 | 90 464 | X | X | X | X | |
| 322226 | Surface-coated paperboard mfg | 1998.. | 80 985 | 33 313 | 7 861 | 39 811 | 80 738 | 30 113 | 9 413 | 41 212 | 3 | 4 | 1 | 3 | |
| | | 1997.. | 81 134 | 30 249 | 9 600 | 41 285 | 83 015 | 30 320 | 9 159 | 43 536 | X | X | X | X | |
| 32223 | Stationery product mfg | 1998.. | 986 827 | 572 128 | 65 635 | 349 063 | 1 013 337 | 567 212 | 74 024 | 372 101 | 5 | 6 | 4 | 4 | |
| | | 1997.. | 1 000 786 | 574 216 | 71 647 | 354 923 | 827 326 | 434 226 | 81 372 | 311 728 | X | X | X | X | |
| 322231 | Die-cut paper & paperboard office supplies mfg | 1998.. | 253 516 | 133 745 | 22 745 | 97 026 | 263 643 | 142 898 | 23 647 | 97 098 | 2 | 1 | 7 | 6 | |
| | | 1997.. | 260 168 | 145 121 | 23 480 | 91 567 | 212 550 | 107 143 | 28 776 | 76 631 | X | X | X | X | |
| 322232 | Envelope mfg | 1998.. | 355 668 | 184 285 | 26 131 | 145 253 | 375 022 | 184 561 | 29 493 | 160 969 | 2 | 2 | 7 | 4 | |
| | | 1997.. | 373 066 | 186 856 | 27 673 | 158 537 | 356 287 | 167 438 | 32 903 | 155 946 | X | X | X | X | |
| 322233 | Stationery, tablet, & related product mfg | 1998.. | 377 642 | 254 098 | 16 760 | 106 784 | 374 671 | 239 753 | 20 884 | 114 034 | 12 | 14 | 8 | 11 | |
| | | 1997.. | 367 552 | 242 239 | 20 494 | 104 819 | 258 489 | 159 645 | 19 693 | 79 151 | X | X | X | X | |
| 32229 | Other converted paper product mfg | 1998.. | 1 034 925 | 538 846 | 80 493 | 415 586 | 963 483 | 500 333 | 64 413 | 398 736 | 3 | 3 | 4 | 7 | |
| | | 1997.. | 949 176 | 489 006 | 60 296 | 399 874 | 969 802 | 523 950 | 56 405 | 389 447 | X | X | X | X | |
| 322291 | Sanitary paper product mfg | 1998.. | 606 078 | 340 273 | 43 347 | 222 458 | 534 240 | 288 895 | 26 192 | 219 153 | 2 | 3 | 2 | 1 | |
| | | 1997.. | 520 504 | 276 233 | 25 099 | 219 172 | 551 312 | 300 690 | 19 954 | 230 668 | X | X | X | X | |
| 322299 | All other converted paper product mfg | 1998.. | 428 847 | 198 573 | 37 147 | 193 128 | 429 243 | 211 439 | 38 221 | 179 583 | 6 | 8 | 8 | 15 | |
| | | 1997.. | 428 672 | 212 773 | 35 197 | 180 702 | 418 490 | 223 260 | 36 451 | 158 779 | X | X | X | X | |
| 323 | Printing & related support activities | 1998.. | 6 658 166 | 1 652 865 | 1 876 953 | 3 128 347 | 6 701 809 | 1 630 314 | 1 862 685 | 3 208 810 | 1 | 3 | 1 | 1 | |
| | | 1997.. | 6 658 065 | 1 566 788 | 1 867 184 | 3 224 093 | 6 432 444 | 1 500 966 | 1 794 702 | 3 136 776 | X | X | X | X | |
| 3231 | Printing & related support activities | 1998.. | 6 658 166 | 1 652 865 | 1 876 953 | 3 128 347 | 6 701 809 | 1 630 314 | 1 862 685 | 3 208 810 | 1 | 3 | 1 | 1 | |
| | | 1997.. | 6 658 065 | 1 566 788 | 1 867 184 | 3 224 093 | 6 432 444 | 1 500 966 | 1 794 702 | 3 136 776 | X | X | X | X | |
| 32311 | Printing | 1998.. | 6 286 731 | 1 574 751 | 1 709 780 | 3 002 200 | 6 338 485 | 1 554 056 | 1 702 638 | 3 081 791 | 1 | 3 | 1 | 1 | |
| | | 1997.. | 6 286 463 | 1 490 479 | 1 700 346 | 3 095 638 | 6 053 233 | 1 420 397 | 1 628 085 | 3 004 751 | X | X | X | X | |
| 323110 | Commercial lithographic printing | 1998.. | 2 989 543 | 428 063 | 983 039 | 1 578 441 | 3 055 145 | 446 670 | 981 266 | 1 627 208 | 1 | 4 | 2 | 1 | |
| | | 1997.. | 3 042 776 | 413 158 | 990 314 | 1 639 304 | 2 891 865 | 376 113 | 931 543 | 1 584 209 | X | X | X | X | |
| 323111 | Commercial gravure printing | 1998.. | 330 271 | 63 369 | 117 810 | 149 092 | 287 256 | 52 991 | 108 889 | 125 375 | 6 | 11 | 2 | 9 | |
| | | 1997.. | 289 850 | 55 779 | 109 199 | 124 872 | 292 431 | 46 564 | 115 902 | 129 965 | X | X | X | X | |
| 323112 | Commercial flexographic printing | 1998.. | 393 528 | 126 069 | 84 316 | 183 142 | 377 892 | 115 511 | 80 771 | 181 609 | 2 | 3 | 2 | 2 | |
| | | 1997.. | 390 200 | 118 898 | 82 262 | 189 040 | 358 886 | 116 704 | 60 324 | 181 858 | X | X | X | X | |
| 323113 | Commercial screen printing | 1998.. | 663 551 | 259 224 | 101 654 | 302 673 | 667 479 | 274 915 | 98 984 | 293 580 | 2 | 2 | 4 | 4 | |
| | | 1997.. | 680 770 | 281 431 | 101 681 | 297 658 | 644 228 | 278 686 | 103 570 | 261 972 | X | X | X | X | |
| 323114 | Quick printing | 1998.. | 222 558 | 50 777 | 54 932 | 116 849 | 227 525 | 45 031 | 58 890 | 123 604 | 2 | 5 | 3 | 2 | |
| | | 1997.. | 212 983 | 43 866 | 55 431 | 113 686 | 213 516 | 37 176 | 59 492 | 116 848 | X | X | X | X | |
| 323115 | Digital printing | 1998.. | 26 280 | 5 462 | 6 121 | 14 697 | 24 059 | 5 163 | 5 911 | 12 985 | 2 | 2 | 3 | 3 | |
| | | 1997.. | 22 452 | 4 692 | 5 472 | 12 288 | 22 891 | 4 594 | 6 108 | 12 189 | X | X | X | X | |
| 323116 | Manifold business form printing | 1998.. | 684 355 | 333 823 | 84 507 | 266 025 | 764 294 | 371 393 | 93 886 | 299 015 | 3 | 6 | 4 | 4 | |
| | | 1997.. | 753 286 | 359 465 | 83 917 | 309 904 | 739 020 | 355 143 | 84 416 | 299 461 | X | X | X | X | |
| 323117 | Book printing | 1998.. | 386 052 | 38 586 | 168 402 | 179 064 | 393 159 | 39 135 | 166 628 | 187 396 | 1 | 1 | 2 | 2 | |
| | | 1997.. | 395 317 | 40 052 | 163 696 | 191 569 | 394 379 | 36 148 | 166 778 | 191 453 | X | X | X | X | |
| 323118 | Blankbook, looseleaf binder, & device mfg | 1998.. | 278 686 | 150 929 | 44 130 | 83 627 | 244 615 | 102 940 | 43 023 | 98 652 | 8 | 16 | 3 | 4 | |
| | | 1997.. | 247 894 | 103 594 | 43 886 | 100 414 | 238 556 | 101 613 | 37 218 | 99 725 | X | X | X | X | |
| 323119 | Other commercial printing | 1998.. | 311 908 | 118 449 | 64 869 | 128 590 | 297 062 | 100 307 | 64 389 | 132 366 | 13 | 28 | 4 | 5 | |
| | | 1997.. | 250 935 | 69 544 | 64 488 | 116 903 | 257 461 | 67 656 | 62 734 | 127 071 | X | X | X | X | |
| 32312 | Support activities for printing | 1998.. | 371 434 | 78 114 | 167 173 | 126 147 | 363 324 | 76 257 | 160 047 | 127 019 | 3 | 9 | 4 | 3 | |
| | | 1997.. | 371 602 | 76 309 | 166 838 | 128 455 | 379 211 | 80 569 | 166 617 | 132 025 | X | X | X | X | |
| 323121 | Tradebinding & related work | 1998.. | 162 121 | 60 589 | 39 199 | 62 333 | 165 327 | 60 154 | 41 106 | 64 068 | 3 | 3 | 4 | 4 | |
| | | 1997.. | 166 601 | 60 176 | 40 629 | 65 796 | 170 586 | 60 077 | 43 656 | 66 853 | X | X | X | X | |
| 323122 | Prepress services | 1998.. | 209 313 | 17 525 | 127 974 | 63 814 | 197 996 | 16 104 | 118 941 | 62 951 | 5 | 39 | 5 | 5 | |
| | | 1997.. | 205 001 | 16 133 | 126 209 | 62 659 | 208 625 | 20 492 | 122 961 | 65 172 | X | X | X | X | |
| 324 | Petroleum & coal products mfg | 1998.. | 9 208 821 | 4 184 466 | 2 261 999 | 2 762 355 | 11 929 888 | 5 459 683 | 2 990 383 | 3 479 822 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 11 498 016 | 5 154 730 | 2 849 344 | 3 493 942 | 12 014 264 | 5 606 458 | 2 669 500 | 3 738 306 | X | X | X | X | |
| 3241 | Petroleum & coal products mfg | 1998.. | 9 208 821 | 4 184 466 | 2 261 999 | 2 762 355 | 11 929 888 | 5 459 683 | 2 990 383 | 3 479 822 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 11 498 016 | 5 154 730 | 2 849 344 | 3 493 942 | 12 014 264 | 5 606 458 | 2 669 500 | 3 738 306 | X | X | X | X | |
| 32411 | Petroleum refineries | 1998.. | 7 846 209 | 3 516 327 | 2 157 379 | 2 172 503 | 10 422 796 | 4 734 366 | 2 872 921 | 2 815 509 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 10 015 426 | 4 447 686 | 3 516 327 | 2 157 379 | 2 172 503 | 10 422 796 | 4 734 366 | 2 872 921 | 2 815 509 | X | X | X | X |
| 324110 | Petroleum refineries | 1998.. | 7 846 209 | 4 447 686 | 2 735 833 | 2 831 907 | 10 512 430 | 4 860 349 | 2 557 235 | 3 094 846 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 10 015 426 | 4 447 686 | 2 735 833 | 2 831 907 | 10 512 430 | 4 860 349 | 2 557 235 | 3 094 846 | | | | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | |
|------------|--------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|-------|------|------|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | A | B | C | D |
| 324 | Petroleum & coal products mfg—Con. | | | | | | | | | | | | |
| 3241 | Petroleum & coal products mfg—Con. | | | | | | | | | | | | |
| 32412 | Asphalt paving, roofing, & saturated materials mfg | 1998.. | 651 155 | 339 425 | 41 551 | 270 178 | 726 643 | 365 537 | 50 833 | 310 273 | 4 X | 2 X | 20 X |
| | | 1997.. | 715 154 | 360 276 | 44 994 | 309 884 | 712 969 | 371 326 | 38 518 | 303 125 | X | X | X |
| 324121 | Asphalt paving mixture & block mfg | 1998.. | 289 691 | 107 039 | 33 304 | 149 347 | 333 106 | 109 056 | 42 050 | 182 000 | 9 X | 4 X | 25 X |
| | | 1997.. | 334 506 | 110 858 | 38 091 | 185 557 | 323 241 | 132 166 | 32 210 | 158 865 | X | X | X |
| 324122 | Asphalt shingle & coating materials mfg | 1998.. | 361 464 | 232 386 | 8 247 | 120 831 | 393 537 | 256 481 | 8 783 | 128 273 | 2 X | 2 X | 6 X |
| | | 1997.. | 380 648 | 249 418 | 6 903 | 124 327 | 389 728 | 239 160 | 6 308 | 144 260 | X | X | X |
| 32419 | Other petroleum & coal products mfg | 1998.. | 711 457 | 328 714 | 63 069 | 319 673 | 780 450 | 359 781 | 66 629 | 354 040 | 2 X | 2 X | 3 X |
| | | 1997.. | 767 436 | 346 768 | 68 517 | 352 151 | 788 865 | 374 783 | 73 747 | 340 335 | X | X | X |
| 324191 | Petroleum lubricating oil & grease mfg | 1998.. | 524 192 | 266 282 | 45 760 | 212 151 | 578 689 | 301 754 | 50 710 | 226 225 | 2 X | 2 X | 2 X |
| | | 1997.. | 562 831 | 286 816 | 52 431 | 223 584 | 574 665 | 314 099 | 53 139 | 207 427 | X | X | X |
| 324199 | All other petroleum & coal products mfg | 1998.. | 187 265 | 62 433 | 17 309 | 107 523 | 201 761 | 58 027 | 15 919 | 127 815 | 3 X | 4 X | 11 X |
| | | 1997.. | 204 605 | 59 952 | 16 086 | 128 567 | 214 200 | 60 684 | 20 608 | 132 908 | X | X | X |
| 325 | Chemical mfg..... | 1998.. | 46 929 222 | 22 589 702 | 8 067 394 | 16 272 126 | 45 618 575 | 22 137 791 | 7 996 349 | 15 484 436 | 1 X | 1 X | 1 X |
| | | 1997.. | 44 874 763 | 21 813 123 | 7 794 688 | 15 266 952 | 42 902 908 | 21 003 454 | 7 327 032 | 14 572 422 | X | X | X |
| 3251 | Basic chemical mfg..... | 1998.. | 10 993 467 | 6 169 081 | 1 084 936 | 3 739 449 | 11 324 569 | 6 187 938 | 1 328 572 | 3 808 058 | 1 X | 1 X | 2 X |
| | | 1997.. | 11 094 070 | 6 094 346 | 1 321 750 | 3 677 974 | 10 922 666 | 6 086 116 | 1 313 730 | 3 523 117 | X | X | X |
| 32511 | Petrochemical mfg | 1998.. | 944 292 | 479 097 | 73 002 | 392 194 | 1 046 531 | 490 593 | 91 827 | 464 111 | 1 X | 1 X | 1 X |
| | | 1997.. | 1 131 043 | 598 132 | 92 143 | 440 768 | 1 044 687 | 529 575 | 76 882 | 438 230 | X | X | X |
| 325110 | Petrochemical mfg | 1998.. | 944 292 | 479 097 | 73 002 | 392 194 | 1 046 531 | 490 593 | 91 827 | 464 111 | 1 X | 1 X | 1 X |
| | | 1997.. | 1 131 043 | 598 132 | 92 143 | 440 768 | 1 044 687 | 529 575 | 76 882 | 438 230 | X | X | X |
| 32512 | Industrial gas mfg | 1998.. | 328 063 | 189 204 | 34 366 | 104 494 | 295 040 | 171 192 | 30 947 | 92 901 | 2 X | 3 X | 1 X |
| | | 1997.. | 298 985 | 174 311 | 30 534 | 94 140 | 308 822 | 182 466 | 34 757 | 91 599 | X | X | X |
| 325120 | Industrial gas mfg | 1998.. | 328 063 | 189 204 | 34 366 | 104 494 | 295 040 | 171 192 | 30 947 | 92 901 | 2 X | 3 X | 1 X |
| | | 1997.. | 298 985 | 174 311 | 30 534 | 94 140 | 308 822 | 182 466 | 34 757 | 91 599 | X | X | X |
| 32513 | Dye & pigment mfg | 1998.. | 1 095 144 | 534 728 | 111 953 | 448 463 | 1 032 031 | 508 669 | 121 881 | 401 481 | 1 X | 3 X | 1 X |
| | | 1997.. | 1 011 068 | 483 216 | 120 568 | 407 284 | 1 093 506 | 512 280 | 129 735 | 451 491 | X | X | X |
| 325131 | Inorganic dye & pigment mfg | 1998.. | 597 979 | 243 950 | 47 957 | 306 072 | 561 573 | 255 366 | 51 737 | 254 470 | 1 X | 1 X | 1 X |
| | | 1997.. | 541 247 | 234 849 | 48 134 | 258 264 | 574 638 | 245 443 | 41 828 | 287 367 | X | X | X |
| 325132 | Synthetic organic dye & pigment mfg | 1998.. | 497 165 | 290 778 | 63 996 | 142 391 | 470 458 | 253 303 | 70 144 | 147 011 | 2 X | 5 X | 1 X |
| | | 1997.. | 469 821 | 248 367 | 72 434 | 149 020 | 518 868 | 266 837 | 87 907 | 164 124 | X | X | X |
| 32518 | Other basic inorganic chemical mfg | 1998.. | 2 120 423 | 1 126 943 | 243 781 | 749 699 | 2 041 593 | 1 081 080 | 224 650 | 735 863 | 2 X | 4 X | 1 X |
| | | 1997.. | 1 896 173 | 919 665 | 224 080 | 752 428 | 1 886 799 | 931 666 | 243 741 | 711 392 | X | X | X |
| 325181 | Alkalies & chlorine mfg | 1998.. | 227 820 | 132 351 | 2 259 | 93 210 | 240 728 | 145 517 | 1 562 | 93 649 | 1 X | 1 X | 1 X |
| | | 1997.. | 240 152 | 144 957 | 1 564 | 93 631 | 215 749 | 123 443 | 1 715 | 90 591 | X | X | X |
| 325182 | Carbon black mfg | 1998.. | 91 347 | 54 134 | — | 37 213 | 87 816 | 55 745 | — | 32 071 | 4 X | 1 X | 7 X |
| | | 1997.. | 87 816 | 55 745 | — | 32 071 | 83 376 | 52 877 | 440 | 30 059 | X | X | X |
| 325188 | All other basic inorganic chemical mfg | 1998.. | 1 801 256 | 940 458 | 241 522 | 619 276 | 1 713 049 | 879 818 | 223 088 | 610 143 | 3 X | 4 X | 2 X |
| | | 1997.. | 1 568 205 | 718 963 | 222 516 | 626 726 | 1 587 674 | 755 346 | 241 586 | 590 742 | X | X | X |
| 32519 | Other basic organic chemical mfg | 1998.. | 6 505 545 | 3 839 110 | 621 835 | 2 044 600 | 6 909 373 | 3 936 404 | 859 267 | 2 113 702 | 1 X | 1 X | 3 X |
| | | 1997.. | 6 756 801 | 3 919 022 | 854 425 | 1 983 354 | 6 589 152 | 3 930 132 | 828 615 | 1 830 405 | X | X | X |
| 325191 | Gum & wood chemical mfg | 1998.. | 156 640 | 89 539 | 21 723 | 45 377 | 161 762 | 81 162 | 28 285 | 52 315 | 1 X | 2 X | 1 X |
| | | 1997.. | 155 672 | 84 789 | 22 996 | 47 887 | 146 788 | 85 915 | 18 627 | 42 246 | X | X | X |
| 325192 | Cyclic crude & intermediate mfg | 1998.. | 554 031 | 347 170 | 34 185 | 172 676 | 614 212 | 383 440 | 54 145 | 176 627 | 1 X | 1 X | 1 X |
| | | 1997.. | 617 181 | 379 985 | 53 998 | 183 198 | 636 136 | 383 979 | 50 704 | 201 453 | X | X | X |
| 325193 | Ethyl alcohol mfg | 1998.. | 63 750 | 40 925 | 2 546 | 20 279 | 76 473 | 46 478 | 4 743 | 25 252 | 22 18 | 62 | 24 X |
| | | 1997.. | 74 916 | 44 933 | 4 707 | 25 276 | 77 993 | 45 867 | 5 102 | 27 024 | X | X | X |
| 325199 | All other basic organic chemical mfg | 1998.. | 5 731 124 | 3 361 475 | 563 381 | 1 806 268 | 6 056 926 | 3 425 324 | 772 094 | 1 859 508 | 1 X | 1 X | 3 X |
| | | 1997.. | 5 909 032 | 3 409 315 | 772 724 | 1 726 993 | 5 728 235 | 3 414 371 | 754 182 | 1 559 682 | X | X | X |
| 3252 | Resin, syn rubber, & artificial & syn fibers & filaments mfg | 1998.. | 6 619 831 | 4 110 590 | 756 649 | 1 752 592 | 6 773 670 | 4 167 942 | 774 011 | 1 831 716 | 1 X | 1 X | 1 X |
| | | 1997.. | 6 700 630 | 4 111 912 | 755 098 | 1 833 620 | 6 388 278 | 3 914 950 | 715 875 | 1 757 453 | X | X | X |
| 32521 | Resin & synthetic rubber mfg | 1998.. | 5 116 132 | 3 278 994 | 487 038 | 1 350 099 | 5 280 851 | 3 381 565 | 518 656 | 1 380 629 | 1 X | 1 X | 1 X |
| | | 1997.. | 5 218 313 | 3 331 359 | 502 365 | 1 384 589 | 4 978 318 | 3 176 878 | 491 480 | 1 309 960 | X | X | X |
| 325211 | Plastics material & resin mfg | 1998.. | 4 362 123 | 2 798 870 | 393 618 | 1 169 635 | 4 490 837 | 2 853 074 | 447 220 | 1 190 542 | 1 X | 1 X | 1 X |
| | | 1997.. | 4 370 715 | 2 773 047 | 427 447 | 1 170 221 | 4 146 587 | 2 642 232 | 407 487 | 1 096 868 | X | X | X |
| 325212 | Synthetic rubber mfg | 1998.. | 754 009 | 480 124 | 93 420 | 180 464 | 790 014 | 528 491 | 71 436 | 190 087 | 1 X | 1 X | 1 X |
| | | 1997.. | 847 598 | 558 312 | 74 918 | 214 368 | 831 731 | 534 646 | 83 993 | 213 092 | X | X | X |
| 32522 | Artificial & synthetic fibers & filaments mfg | 1998.. | 1 503 699 | 831 595 | 269 611 | 402 493 | 1 492 819 | 786 377 | 255 355 | 451 087 | 1 X | 1 X | 2 X |
| | | 1997.. | 1 482 317 | 780 553 | 252 733 | 449 031 | 1 409 960 | 738 072 | 224 395 | 447 493 | X | X | X |
| 325221 | Cellulosic organic fiber mfg | 1998.. | 123 378 | 69 521 | 9 888 | 43 969 | 134 339 | 63 997 | 16 469 | 53 873 | 1 X | 1 X | 1 X |
| | | 1997.. | 138 502 | 66 674 | 16 571 | 55 257 | 135 582 | 61 028 | 14 458 | 60 096 | X | X | X |
| 325222 | Noncellulosic organic fiber mfg | 1998.. | 1 380 321 | 762 074 | 259 723 | 358 524 | 1 358 480 | 722 380 | 238 886 | 397 214 | 1 X | 2 X | 1 X |
| | | 1997.. | 1 343 815 | 713 879 | 236 162 | 393 774 | 1 274 378 | 677 044 | 209 937 | 387 397 | X | X | X |
| 3253 | Pesticide, fertilizer, & other agricultural chemical mfg | 1998.. | 2 717 600 | 1 169 788 | 467 409 | 1 080 403 | 2 749 028 | 1 271 471 | 403 857 | 1 073 700 | 1 X | 2 X | 1 X |
| | | 1997.. | 2 721 446 | 1 264 833 | 396 677 | 1 059 936 | 2 469 182 | 1 145 477 | 314 228 | 1 009 477 | X | X | X |
| 32531 | Fertilizer mfg | 1998.. | 1 399 590 | 645 577 | 132 222 | 621 791 | 1 436 075 | 717 516 | 127 057 | 591 503 | 1 X | 4 X | 2 X |
| | | 1997.. | 1 413 366 | 706 212 | 127 552 | 579 602 | 1 324 526 | 643 721 | 106 038 | 574 767 | X | X | X |
| 325311 | Nitrogenous fertilizer mfg | 1998.. | 397 852 | 185 233 | 5 166 | 207 452 | 421 220 | 213 350 | 6 920 | 200 950 | 1 X | 7 X | 4 X |
| | | 1997.. | 388 875 | 189 162 | 6 659 | 193 054 | 349 521 | 164 686 | 5 881 | 178 954 | X | X | X |
| 325312 | Phosphatic fertilizer mfg | 1998.. | 457 419 | 133 829 | 81 372 | 242 217 | 498 550 | 190 799 | 76 385 | 231 366 | 3 X | 16 X | 2 X |
| | | 1997.. | 522 628 | 209 336 | 76 333 | 236 959 | 474 476 | 178 377 | 68 062 | 228 037 | X | X | X |
| 325314 | Fertilizer (mixing only) mfg | 1998.. | 544 319 | 326 514</td | | | | | | | | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|---|-----|---|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | A | B | C | D | E | F | G | H | X | X | X | X | |
| 325 | Chemical mfg—Con. | | | | | | | | | | | | | |
| 3253 | Pesticide, fertilizer, & other agricultural chemical mfg—Con. | | | | | | | | | | | | | |
| 32532 | Pesticide & other agricultural chemical mfg | 1998.. | 1 318 010 | 524 211 | 335 187 | 458 612 | 1 312 952 | 553 955 | 276 800 | 482 197 | 1 | 1 | 1 | |
| | | 1997.. | 1 308 080 | 558 621 | 269 125 | 480 334 | 1 144 656 | 501 756 | 208 190 | 434 710 | X | X | X | |
| 325320 | Pesticide & other agricultural chemical mfg | 1998.. | 1 318 010 | 524 211 | 335 187 | 458 612 | 1 312 952 | 553 955 | 276 800 | 482 197 | 1 | 1 | 1 | |
| | | 1997.. | 1 308 080 | 558 621 | 269 125 | 480 334 | 1 144 656 | 501 756 | 208 190 | 434 710 | X | X | X | |
| 3254 | Pharmaceutical & medicine mfg | 1998.. | 13 844 366 | 4 826 851 | 4 326 018 | 4 691 498 | 12 735 953 | 4 618 386 | 4 056 822 | 4 060 744 | 1 | 2 | 1 | 3 |
| | | 1997.. | 12 387 604 | 4 571 441 | 3 885 088 | 3 931 075 | 11 411 221 | 4 201 622 | 3 460 136 | 3 749 463 | X | X | X | X |
| 32541 | Pharmaceutical & medicine mfg | 1998.. | 13 844 366 | 4 826 851 | 4 326 018 | 4 691 498 | 12 735 953 | 4 618 386 | 4 056 822 | 4 060 744 | 1 | 2 | 1 | 3 |
| | | 1997.. | 12 387 604 | 4 571 441 | 3 885 088 | 3 931 075 | 11 411 221 | 4 201 622 | 3 460 136 | 3 749 463 | X | X | X | X |
| 325411 | Medicinal & botanical mfg | 1998.. | 2 177 294 | 677 248 | 568 894 | 931 152 | 1 905 883 | 631 962 | 628 958 | 644 963 | 2 | 1 | 1 | 3 |
| | | 1997.. | 1 878 773 | 624 640 | 613 198 | 640 935 | 1 812 321 | 619 964 | 620 332 | 572 025 | X | X | X | X |
| 325412 | Pharmaceutical preparation mfg | 1998.. | 8 868 666 | 3 183 324 | 2 625 137 | 3 060 206 | 7 941 525 | 2 958 081 | 2 319 023 | 2 664 421 | 1 | 3 | 1 | 4 |
| | | 1997.. | 7 735 965 | 2 907 830 | 2 243 789 | 2 584 346 | 7 007 299 | 2 662 184 | 1 880 788 | 2 464 327 | X | X | X | X |
| 325413 | In-vitro diagnostic substance mfg | 1998.. | 1 284 869 | 488 469 | 386 635 | 409 764 | 1 477 173 | 598 381 | 417 812 | 460 980 | 3 | 4 | 2 | 4 |
| | | 1997.. | 1 443 534 | 572 687 | 417 082 | 453 765 | 1 428 146 | 570 092 | 407 903 | 450 151 | X | X | X | X |
| 325414 | Biological product (except diagnostic) mfg | 1998.. | 1 513 537 | 477 809 | 745 352 | 290 376 | 1 411 372 | 429 963 | 691 029 | 290 380 | 2 | 4 | 1 | 1 |
| | | 1997.. | 1 329 332 | 466 284 | 611 019 | 252 029 | 1 163 455 | 349 382 | 551 113 | 262 960 | X | X | X | X |
| 3255 | Paint, coating, & adhesive mfg | 1998.. | 2 885 189 | 1 560 114 | 158 526 | 1 166 550 | 2 862 375 | 1 566 179 | 153 799 | 1 142 397 | 2 | 4 | 1 | 1 |
| | | 1997.. | 2 848 644 | 1 524 902 | 156 833 | 1 166 909 | 2 689 555 | 1 467 025 | 167 183 | 1 055 347 | X | X | X | X |
| 32551 | Paint & coating mfg | 1998.. | 2 178 014 | 1 213 958 | 100 326 | 863 730 | 2 159 390 | 1 230 203 | 92 986 | 836 201 | 3 | 5 | 6 | 2 |
| | | 1997.. | 2 161 007 | 1 206 835 | 95 492 | 858 680 | 2 027 564 | 1 155 975 | 108 460 | 763 129 | X | X | X | X |
| 325510 | Paint & coating mfg | 1998.. | 2 178 014 | 1 213 958 | 100 326 | 863 730 | 2 159 390 | 1 230 203 | 92 986 | 836 201 | 3 | 5 | 6 | 2 |
| | | 1997.. | 2 161 007 | 1 206 835 | 95 492 | 858 680 | 2 027 564 | 1 155 975 | 108 460 | 763 129 | X | X | X | X |
| 32552 | Adhesive mfg | 1998.. | 707 175 | 346 156 | 58 199 | 302 819 | 702 985 | 335 977 | 60 813 | 306 196 | 1 | 1 | 3 | 2 |
| | | 1997.. | 687 637 | 318 067 | 61 341 | 308 229 | 661 991 | 311 050 | 58 723 | 292 218 | X | X | X | X |
| 325520 | Adhesive mfg | 1998.. | 707 175 | 346 156 | 58 199 | 302 819 | 702 985 | 335 977 | 60 813 | 306 196 | 1 | 1 | 3 | 2 |
| | | 1997.. | 687 637 | 318 067 | 61 341 | 308 229 | 661 991 | 311 050 | 58 723 | 292 218 | X | X | X | X |
| 3256 | Soap, cleaning compound, & toilet preparation mfg | 1998.. | 5 441 798 | 2 820 330 | 344 080 | 2 277 389 | 4 834 625 | 2 511 190 | 334 646 | 1 988 790 | 5 | 5 | 1 | 7 |
| | | 1997.. | 4 844 593 | 2 485 798 | 343 650 | 2 015 145 | 4 672 434 | 2 364 483 | 370 643 | 1 937 308 | X | X | X | X |
| 32561 | Soap & cleaning compound mfg | 1998.. | 2 307 837 | 1 265 493 | 153 551 | 888 793 | 2 274 459 | 1 266 622 | 158 856 | 848 981 | 1 | 1 | 2 | 1 |
| | | 1997.. | 2 321 488 | 1 277 625 | 162 811 | 881 052 | 2 282 830 | 1 237 762 | 191 528 | 853 540 | X | X | X | X |
| 325611 | Soap & other detergent mfg | 1998.. | 1 140 528 | 596 095 | 68 389 | 476 045 | 1 208 199 | 654 270 | 76 233 | 477 696 | 1 | 2 | 3 | 1 |
| | | 1997.. | 1 239 995 | 678 644 | 77 305 | 484 046 | 1 180 281 | 620 854 | 92 184 | 467 243 | X | X | X | X |
| 325612 | Polish & other sanitation good mfg | 1998.. | 673 196 | 379 326 | 29 622 | 264 249 | 549 977 | 302 106 | 31 452 | 216 418 | 2 | 2 | 9 | 2 |
| | | 1997.. | 554 751 | 286 623 | 32 184 | 235 944 | 574 136 | 308 950 | 39 440 | 225 746 | X | X | X | X |
| 325613 | Surface active agent mfg | 1998.. | 494 112 | 290 072 | 55 540 | 148 500 | 516 283 | 310 246 | 51 171 | 154 866 | 1 | 2 | 1 | 2 |
| | | 1997.. | 526 742 | 312 358 | 53 322 | 161 062 | 528 413 | 307 958 | 59 904 | 160 551 | X | X | X | X |
| 32562 | Toilet preparation mfg | 1998.. | 3 133 962 | 1 554 837 | 190 529 | 1 388 596 | 2 560 166 | 1 244 567 | 175 790 | 1 139 808 | 9 | 8 | 2 | 12 |
| | | 1997.. | 2 523 105 | 1 208 173 | 180 839 | 1 134 093 | 2 389 604 | 1 126 721 | 179 115 | 1 083 768 | X | X | X | X |
| 325620 | Toilet preparation mfg | 1998.. | 3 133 962 | 1 554 837 | 190 529 | 1 388 596 | 2 560 166 | 1 244 567 | 175 790 | 1 139 808 | 9 | 8 | 2 | 12 |
| | | 1997.. | 2 523 105 | 1 208 173 | 180 839 | 1 134 093 | 2 389 604 | 1 126 721 | 179 115 | 1 083 768 | X | X | X | X |
| 3259 | Other chemical product mfg | 1998.. | 4 426 971 | 1 932 950 | 929 776 | 1 564 246 | 4 338 356 | 1 814 683 | 944 641 | 1 579 032 | 1 | 2 | 1 | 1 |
| | | 1997.. | 4 277 776 | 1 759 891 | 935 592 | 1 582 293 | 4 349 272 | 1 823 778 | 985 237 | 1 540 257 | X | X | X | X |
| 32591 | Printing ink mfg | 1998.. | 526 780 | 309 657 | 39 415 | 177 708 | 471 139 | 260 273 | 35 962 | 174 903 | 5 | 9 | 2 | 5 |
| | | 1997.. | 439 783 | 249 842 | 35 915 | 154 026 | 445 089 | 238 989 | 18 140 | 187 960 | X | X | X | X |
| 325910 | Printing ink mfg | 1998.. | 526 780 | 309 657 | 39 415 | 177 708 | 471 139 | 260 273 | 35 962 | 174 903 | 5 | 9 | 2 | 5 |
| | | 1997.. | 439 783 | 249 842 | 35 915 | 154 026 | 445 089 | 238 989 | 18 140 | 187 960 | X | X | X | X |
| 32592 | Explosives mfg | 1998.. | 152 405 | 45 779 | 42 265 | 64 361 | 157 226 | 46 132 | 47 577 | 63 516 | 4 | 15 | 3 | 1 |
| | | 1997.. | 164 460 | 46 718 | 51 925 | 65 817 | 163 679 | 51 232 | 45 490 | 56 957 | X | X | X | X |
| 325920 | Explosives mfg | 1998.. | 152 405 | 45 779 | 42 265 | 64 361 | 157 226 | 46 132 | 47 577 | 63 516 | 4 | 15 | 3 | 1 |
| | | 1997.. | 164 460 | 46 718 | 51 925 | 65 817 | 163 679 | 51 232 | 45 490 | 56 957 | X | X | X | X |
| 32599 | All other chemical product & preparation mfg | 1998.. | 3 747 786 | 1 577 513 | 848 096 | 1 322 177 | 3 709 991 | 1 508 278 | 861 102 | 1 340 612 | 1 | 1 | 1 | 1 |
| | | 1997.. | 3 673 533 | 1 463 331 | 847 752 | 1 362 450 | 3 740 504 | 1 533 557 | 911 607 | 1 295 340 | X | X | X | X |
| 325991 | Custom compounding of purchased resin | 1998.. | 812 219 | 411 657 | 30 263 | 370 299 | 777 171 | 381 211 | 34 332 | 361 627 | 1 | 1 | 3 | 1 |
| | | 1997.. | 774 960 | 364 556 | 33 890 | 376 514 | 734 552 | 358 502 | 31 403 | 344 647 | X | X | X | X |
| 325992 | Photographic film, paper, plate, & chemical mfg | 1998.. | 1 405 457 | 365 323 | 624 670 | 415 464 | 1 460 501 | 364 538 | 655 425 | 440 538 | 1 | 1 | 1 | 1 |
| | | 1997.. | 1 471 023 | 353 148 | 653 142 | 464 733 | 1 614 944 | 474 447 | 704 138 | 436 359 | X | X | X | X |
| 325998 | All other miscellaneous chemical product & preparation mfg | 1998.. | 1 530 110 | 800 533 | 193 163 | 536 414 | 1 472 320 | 762 528 | 171 345 | 538 447 | 1 | 1 | 2 | 2 |
| | | 1997.. | 1 427 550 | 745 627 | 160 720 | 521 203 | 1 391 008 | 700 608 | 176 066 | 514 334 | X | X | X | X |
| 326 | Plastics & rubber products mfg | 1998.. | 15 857 139 | 7 359 646 | 2 219 282 | 6 278 211 | 15 808 493 | 7 198 122 | 2 199 923 | 6 410 448 | 1 | 1 | 1 | 1 |
| | | 1997.. | 16 097 346 | 7 330 965 | 2 201 738 | 6 564 643 | 15 697 621 | 7 231 836 | 2 121 961 | 6 343 824 | X | X | X | X |
| 3261 | Plastics product mfg | 1998.. | 12 762 930 | 5 929 792 | 1 712 124 | 5 121 024 | 12 773 504 | 5 783 534 | 1 692 953 | 5 297 090 | 1 | 1 | 1 | 1 |
| | | 1997.. | 13 037 947 | 5 896 224 | 1 691 227 | 5 450 496 | 12 599 430 | 5 750 504 | 1 598 949 | 5 249 977 | X | X | X | X |
| 32611 | Unsupported plastics film, sheet, & bag mfg | 1998.. | 2 591 174 | 1 134 634 | 423 526 | 1 033 014 | 2 589 628 | 1 112 272 | 401 831 | 1 075 525 | 1 | 1 | 4 | 2 |
| | | 1997.. | 2 704 894 | 1 163 310 | 404 428 | 1 137 156 | 2 625 428 | 1 146 565 | 384 664 | 1 094 199 | X | X | X | X |
| 326111 | Unsupported plastics bag mfg | 1998.. | 648 651 | 284 520 | 67 170 | 296 961 | 660 464 | 278 401 | 70 748 | 311 315 | 2 | 2 | 5 | 2 |
| | | 1997.. | 719 648 | 306 900 | 76 942 | 335 806 | 720 567 | 310 435 | 64 887 | 345 245 | X | X | X | X |
| 326112 | Unsupported plastics packaging film & sheet mfg | 1998.. | 399 293 | 199 438 | 71 996 | 127 859 | 421 415 | 198 907 | 69 677 | 152 831 | 4 | 4</ | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | |
|------------|---------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|----|----|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | A | B | C | D |
| 326 | Plastics & rubber products mfg—Con. | | | | | | | | | | | | |
| 3261 | Plastics product mfg—Con. | | | | | | | | | | | | |
| 32612 | Plastics pipe, pipe fitting, & unsupported profile shape mfg | 1 154 812 | 678 756 | 91 306 | 384 750 | 1 229 812 | 720 529 | 89 420 | 419 862 | 2 | 2 | 2 | 3 |
| | 1998.. | 1 235 629 | 695 490 | 100 832 | 439 307 | 1 154 891 | 662 337 | 89 670 | 402 884 | X | X | X | X |
| 326121 | Unsupported plastics profile shape mfg | 477 753 | 240 225 | 54 610 | 182 918 | 450 466 | 211 492 | 55 980 | 182 994 | 2 | 3 | 2 | 3 |
| | 1997.. | 450 399 | 199 114 | 60 715 | 190 570 | 468 510 | 213 786 | 59 290 | 195 434 | X | X | X | X |
| 326122 | Plastics pipe & pipe fitting mfg | 677 059 | 438 531 | 36 696 | 201 832 | 779 345 | 509 037 | 33 441 | 236 867 | 2 | 3 | 4 | 6 |
| | 1997.. | 785 230 | 496 376 | 40 117 | 248 737 | 686 381 | 448 551 | 30 380 | 207 450 | X | X | X | X |
| 32613 | Laminated plastics plate, sheet, & shape mfg | 334 881 | 124 932 | 57 120 | 152 829 | 339 155 | 128 979 | 61 028 | 149 148 | 1 | 2 | 5 | 1 |
| | 1998.. | 382 815 | 152 124 | 61 319 | 169 372 | 374 258 | 155 341 | 59 546 | 159 371 | X | X | X | X |
| 326130 | Laminated plastics plate, sheet, & shape mfg | 334 881 | 124 932 | 57 120 | 152 829 | 339 155 | 128 979 | 61 028 | 149 148 | 1 | 2 | 5 | 1 |
| | 1997.. | 382 815 | 152 124 | 61 319 | 169 372 | 374 258 | 155 341 | 59 546 | 159 371 | X | X | X | X |
| 32614 | Polystyrene foam product mfg | 476 250 | 244 937 | 51 712 | 179 601 | 461 919 | 207 824 | 47 752 | 206 343 | 1 | 1 | 3 | 2 |
| | 1998.. | 465 554 | 218 149 | 50 050 | 197 355 | 469 334 | 230 276 | 42 838 | 196 220 | X | X | X | X |
| 326140 | Polystyrene foam product mfg | 476 250 | 244 937 | 51 712 | 179 601 | 461 919 | 207 824 | 47 752 | 206 343 | 1 | 1 | 3 | 2 |
| | 1997.. | 465 554 | 218 149 | 50 050 | 197 355 | 469 334 | 230 276 | 42 838 | 196 220 | X | X | X | X |
| 32615 | Urethane & other foam product (except polystyrene) mfg | 487 449 | 156 384 | 70 089 | 260 977 | 491 134 | 150 049 | 69 558 | 271 528 | 1 | 2 | 2 | 3 |
| | 1998.. | 494 863 | 150 493 | 70 990 | 273 380 | 465 440 | 140 055 | 62 972 | 262 413 | X | X | X | X |
| 32616 | Plastics bottle mfg | 603 210 | 297 994 | 64 659 | 240 558 | 568 959 | 278 893 | 70 463 | 219 603 | 2 | 2 | 2 | 4 |
| | 1997.. | 575 619 | 282 267 | 68 290 | 225 062 | 532 866 | 273 031 | 49 278 | 210 557 | X | X | X | X |
| 326160 | Plastics bottle mfg | 603 210 | 297 994 | 64 659 | 240 558 | 568 959 | 278 893 | 70 463 | 219 603 | 2 | 2 | 2 | 4 |
| | 1997.. | 575 619 | 282 267 | 68 290 | 225 062 | 532 866 | 273 031 | 49 278 | 210 557 | X | X | X | X |
| 32619 | Other plastics product mfg | 7 115 154 | 3 292 145 | 953 713 | 2 869 296 | 7 092 971 | 3 184 989 | 952 901 | 2 955 080 | 1 | 1 | 1 | 1 |
| | 1998.. | 7 178 573 | 3 234 391 | 935 318 | 3 008 864 | 6 977 213 | 3 142 899 | 909 981 | 2 924 333 | X | X | X | X |
| 326191 | Plastics plumbing fixture mfg | 175 528 | 74 342 | 14 848 | 86 337 | 162 699 | 65 434 | 13 949 | 83 315 | 2 | 2 | 13 | 1 |
| | 1997.. | 160 174 | 65 319 | 13 269 | 81 586 | 162 170 | 65 615 | 17 599 | 78 956 | X | X | X | X |
| 326192 | Resilient floor covering mfg | 242 859 | 184 957 | 15 629 | 42 273 | 263 014 | 197 916 | 18 241 | 46 857 | 1 | 1 | 1 | 1 |
| | 1997.. | 250 891 | 189 490 | 17 803 | 43 598 | 252 444 | 167 987 | 18 315 | 66 142 | X | X | X | X |
| 326199 | All other plastics product mfg | 6 696 767 | 3 032 846 | 923 235 | 2 740 686 | 6 667 258 | 2 921 639 | 920 711 | 2 824 909 | 1 | 1 | 1 | 1 |
| | 1997.. | 6 767 508 | 2 979 582 | 904 246 | 2 883 680 | 6 562 599 | 2 909 297 | 874 067 | 2 779 235 | X | X | X | X |
| 3262 | Rubber product mfg | 3 094 209 | 1 429 864 | 507 158 | 1 157 187 | 3 034 915 | 1 414 588 | 506 969 | 1 113 358 | 1 | 1 | 2 | 1 |
| 32621 | Tire mfg | 3 059 399 | 1 434 741 | 510 511 | 1 114 147 | 3 098 191 | 1 481 332 | 523 012 | 1 093 847 | X | X | X | X |
| 326211 | Tire mfg (except retreading) | 1 188 547 | 609 554 | 147 614 | 431 377 | 1 171 303 | 611 928 | 150 315 | 409 060 | 1 | 1 | 1 | 1 |
| | 1997.. | 1 166 251 | 607 526 | 147 311 | 411 414 | 1 196 281 | 639 593 | 142 888 | 413 800 | X | X | X | X |
| 326212 | Tire mfg (except retreading) | 1 079 623 | 548 976 | 140 339 | 390 308 | 1 062 081 | 552 197 | 141 093 | 368 791 | 1 | 1 | 1 | 1 |
| | 1997.. | 1 057 875 | 548 692 | 140 806 | 368 377 | 1 087 290 | 579 637 | 134 101 | 373 552 | X | X | X | X |
| 326212 | Tire retreading | 108 924 | 60 578 | 7 275 | 41 071 | 109 222 | 59 731 | 9 222 | 40 268 | 3 | 3 | 10 | 6 |
| 32622 | Rubber & plastics hoses & belting mfg | 495 398 | 283 439 | 75 527 | 136 432 | 495 724 | 278 459 | 82 596 | 134 670 | 2 | 3 | 3 | 4 |
| | 1997.. | 522 042 | 305 297 | 89 600 | 127 145 | 563 650 | 334 360 | 100 573 | 128 717 | X | X | X | X |
| 326220 | Rubber & plastics hoses & belting mfg | 495 398 | 283 439 | 75 527 | 136 432 | 495 724 | 278 459 | 82 596 | 134 670 | 2 | 3 | 3 | 4 |
| | 1997.. | 522 042 | 305 297 | 89 600 | 127 145 | 563 650 | 334 360 | 100 573 | 128 717 | X | X | X | X |
| 32629 | Other rubber product mfg | 1 410 264 | 536 871 | 284 017 | 589 376 | 1 367 888 | 524 201 | 274 058 | 569 628 | 1 | 3 | 3 | 2 |
| | 1997.. | 1 371 106 | 521 918 | 273 600 | 575 588 | 1 338 260 | 507 379 | 279 551 | 551 330 | X | X | X | X |
| 326291 | Rubber product mfg for mechanical use | 550 008 | 210 244 | 120 466 | 219 298 | 527 961 | 200 879 | 114 788 | 212 294 | 2 | 3 | 8 | 4 |
| | 1997.. | 521 277 | 200 064 | 111 560 | 209 653 | 486 924 | 176 852 | 109 358 | 200 714 | X | X | X | X |
| 326299 | All other rubber product mfg | 860 256 | 326 627 | 163 551 | 370 078 | 839 927 | 323 322 | 159 270 | 357 334 | 1 | 4 | 2 | 2 |
| | 1997.. | 849 829 | 321 854 | 162 040 | 365 935 | 851 336 | 330 527 | 170 193 | 350 616 | X | X | X | X |
| 327 | Nonmetallic mineral product mfg | 9 172 780 | 4 585 681 | 1 220 526 | 3 366 572 | 8 958 775 | 4 511 185 | 1 197 122 | 3 250 468 | 1 | 1 | 1 | 1 |
| | 1997.. | 8 887 159 | 4 483 470 | 1 194 067 | 3 209 622 | 8 679 135 | 4 459 096 | 1 181 637 | 3 038 402 | X | X | X | X |
| 3271 | Clay product & refractory mfg | 1 501 409 | 834 246 | 237 512 | 429 651 | 1 490 475 | 832 787 | 247 080 | 410 608 | 1 | 2 | 2 | 2 |
| 32711 | Pottery, ceramics, & plumbing fixture mfg | 1 489 463 | 837 426 | 243 889 | 408 148 | 1 468 465 | 846 001 | 231 085 | 391 379 | X | X | X | X |
| 327111 | Vitreous china plumbing fixture & bathroom accessories mfg | 606 280 | 287 968 | 152 790 | 165 522 | 587 513 | 279 267 | 158 268 | 149 978 | 1 | 2 | 2 | 5 |
| | 1997.. | 571 789 | 275 894 | 152 349 | 143 546 | 550 982 | 271 130 | 142 072 | 137 780 | X | X | X | X |
| 327112 | Vitreous china, fine earthenware, & other pottery product mfg | 315 778 | 169 882 | 77 089 | 68 807 | 320 890 | 164 676 | 83 274 | 72 940 | 1 | 1 | 1 | 1 |
| | 1997.. | 310 122 | 162 057 | 79 053 | 69 012 | 278 404 | 144 724 | 68 589 | 65 091 | X | X | X | X |
| 327113 | Porcelain electrical supply mfg | 186 756 | 59 303 | 55 686 | 71 766 | 167 106 | 57 953 | 52 307 | 56 846 | 4 | 8 | 6 | 11 |
| | 1997.. | 159 434 | 55 148 | 49 979 | 54 307 | 154 448 | 54 900 | 47 740 | 51 808 | X | X | X | X |
| 32712 | Clay building material & refractories mfg | 895 129 | 546 278 | 84 722 | 264 128 | 902 962 | 553 519 | 88 813 | 260 630 | 2 | 3 | 1 | 2 |
| | 1997.. | 917 674 | 561 532 | 91 540 | 264 602 | 917 483 | 574 871 | 89 013 | 253 599 | X | X | X | X |
| 327121 | Brick & structural clay tile mfg | 261 082 | 196 207 | 10 600 | 54 274 | 268 894 | 207 793 | 10 255 | 50 846 | 2 | 2 | 4 | 3 |
| | 1997.. | 269 943 | 208 516 | 10 335 | 51 092 | 269 602 | 211 312 | 9 707 | 48 583 | X | X | X | X |
| 327122 | Ceramic wall & floor tile mfg | 192 802 | 146 884 | 10 379 | 35 539 | 183 772 | 132 936 | 12 017 | 38 818 | 6 | 12 | 6 | 13 |
| | 1997.. | 188 032 | 135 250 | 11 672 | 41 110 | 177 870 | 127 749 | 15 746 | 34 375 | X | X | X | X |

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | |
|------------|---------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|---|----|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | A | B | C | D |
| 327 | Nonmetallic mineral product mfg —Con. | | | | | | | | | | | | |
| 3271 | Clay product & refractory mfg—Con. | | | | | | | | | | | | |
| 32712 | Clay building material & refractories mfg—Con. | | | | | | | | | | | | |
| 327123 | Other structural clay product mfg | 1998.. | 22 926 | 17 246 | 1 679 | 4 001 | 21 736 | 16 513 | 1 359 | 3 864 | 1 | 1 | 1 |
| | | 1997.. | 21 685 | 16 550 | 1 513 | 3 622 | 24 827 | 17 920 | 1 807 | 5 100 | X | X | X |
| 327124 | Clay refractory mfg | 1998.. | 160 242 | 66 036 | 23 557 | 70 648 | 172 815 | 73 037 | 27 057 | 72 721 | 3 | 5 | 3 |
| | | 1997.. | 171 621 | 72 588 | 27 398 | 71 635 | 165 474 | 79 194 | 19 836 | 66 444 | X | X | X |
| 327125 | Nonclay refractory mfg | 1998.. | 258 077 | 119 905 | 38 506 | 99 666 | 255 745 | 123 240 | 38 124 | 94 381 | 1 | 1 | 2 |
| | | 1997.. | 266 393 | 128 628 | 40 622 | 97 143 | 279 710 | 138 696 | 41 917 | 99 097 | X | X | X |
| 3272 | Glass & glass product mfg | 1998.. | 2 801 617 | 1 683 760 | 322 040 | 795 817 | 2 710 020 | 1 584 360 | 346 849 | 778 811 | 1 | 1 | 1 |
| | | 1997.. | 2 728 116 | 1 592 021 | 353 457 | 782 638 | 2 638 486 | 1 570 220 | 318 337 | 749 929 | X | X | X |
| 32721 | Glass & glass product mfg | 1998.. | 2 801 617 | 1 683 760 | 322 040 | 795 817 | 2 710 020 | 1 584 360 | 346 849 | 778 811 | 1 | 1 | 3 |
| | | 1997.. | 2 728 116 | 1 592 021 | 353 457 | 782 638 | 2 638 486 | 1 570 220 | 318 337 | 749 929 | X | X | X |
| 327211 | Flat glass mfg | 1998.. | 283 552 | 194 177 | 32 564 | 56 810 | 299 831 | 201 400 | 40 829 | 57 602 | 1 | 1 | 1 |
| | | 1997.. | 299 831 | 201 400 | 40 829 | 57 602 | 283 963 | 181 148 | 41 078 | 61 737 | X | X | X |
| 327212 | Other pressed & blown glass & glassware mfg | 1998.. | 970 381 | 612 510 | 104 893 | 252 979 | 889 952 | 554 501 | 110 894 | 224 557 | 2 | 2 | 5 |
| | | 1997.. | 892 132 | 556 223 | 112 127 | 223 782 | 824 221 | 516 116 | 95 998 | 212 107 | X | X | X |
| 327213 | Glass container mfg | 1998.. | 674 517 | 555 799 | 1 915 | 116 803 | 622 189 | 501 654 | 1 927 | 118 608 | 1 | 1 | 1 |
| | | 1997.. | 622 189 | 501 654 | 1 927 | 118 608 | 677 460 | 553 013 | 1 581 | 122 866 | X | X | X |
| 327215 | Glass product mfg made of purchased glass | 1998.. | 873 167 | 321 274 | 182 669 | 369 224 | 898 047 | 326 805 | 193 199 | 378 043 | 2 | 1 | 5 |
| | | 1997.. | 913 964 | 332 744 | 198 574 | 382 646 | 852 842 | 319 943 | 179 680 | 353 219 | X | X | X |
| 3273 | Cement & concrete product mfg | 1998.. | 2 844 295 | 1 298 434 | 287 506 | 1 258 356 | 2 757 936 | 1 295 726 | 223 157 | 1 239 053 | 2 | 3 | 2 |
| | | 1997.. | 2 684 762 | 1 284 043 | 211 520 | 1 189 199 | 2 605 108 | 1 241 812 | 240 588 | 1 122 708 | X | X | X |
| 32731 | Cement mfg | 1998.. | 859 157 | 190 140 | 129 874 | 539 143 | 844 213 | 212 568 | 106 043 | 525 602 | 3 | 6 | 4 |
| | | 1997.. | 832 693 | 215 045 | 105 076 | 512 572 | 846 260 | 220 363 | 133 237 | 492 660 | X | X | X |
| 327310 | Cement mfg | 1998.. | 859 157 | 190 140 | 129 874 | 539 143 | 844 213 | 212 568 | 106 043 | 525 602 | 3 | 6 | 4 |
| | | 1997.. | 832 693 | 215 045 | 105 076 | 512 572 | 846 260 | 220 363 | 133 237 | 492 660 | X | X | X |
| 32732 | Ready-mix concrete mfg | 1998.. | 650 382 | 188 680 | 27 507 | 434 194 | 659 755 | 197 466 | 19 052 | 443 237 | 4 | 10 | 2 |
| | | 1997.. | 587 316 | 163 083 | 17 405 | 406 828 | 570 014 | 180 305 | 20 939 | 368 770 | X | X | X |
| 327320 | Ready-mix concrete mfg | 1998.. | 650 382 | 188 680 | 27 507 | 434 194 | 659 755 | 197 466 | 19 052 | 443 237 | 4 | 10 | 2 |
| | | 1997.. | 587 316 | 163 083 | 17 405 | 406 828 | 570 014 | 180 305 | 20 939 | 368 770 | X | X | X |
| 32733 | Concrete pipe, brick, & block mfg | 1998.. | 689 176 | 516 618 | 57 364 | 115 194 | 647 816 | 519 432 | 23 325 | 105 058 | 4 | 5 | 6 |
| | | 1997.. | 652 114 | 521 540 | 23 721 | 106 853 | 606 902 | 481 970 | 26 307 | 98 625 | X | X | X |
| 327331 | Concrete block & brick mfg | 1998.. | 383 122 | 309 538 | 13 697 | 59 887 | 347 120 | 286 982 | 8 904 | 51 233 | 5 | 6 | 3 |
| | | 1997.. | 349 845 | 288 005 | 9 320 | 52 520 | 321 457 | 264 530 | 5 483 | 51 444 | X | X | X |
| 327332 | Concrete pipe mfg | 1998.. | 306 054 | 207 080 | 43 667 | 55 307 | 300 696 | 232 450 | 14 421 | 53 825 | 6 | 8 | 3 |
| | | 1997.. | 302 269 | 233 535 | 14 401 | 54 333 | 285 445 | 217 440 | 20 824 | 47 181 | X | X | X |
| 32739 | Other concrete product mfg | 1998.. | 645 580 | 402 995 | 72 761 | 169 825 | 606 152 | 366 260 | 74 737 | 165 155 | 2 | 3 | 6 |
| | | 1997.. | 612 639 | 384 375 | 65 318 | 162 946 | 581 932 | 359 174 | 60 105 | 162 653 | X | X | X |
| 327390 | Other concrete product mfg | 1998.. | 645 580 | 402 995 | 72 761 | 169 825 | 606 152 | 366 260 | 74 737 | 165 155 | 2 | 3 | 6 |
| | | 1997.. | 612 639 | 384 375 | 65 318 | 162 946 | 581 932 | 359 174 | 60 105 | 162 653 | X | X | X |
| 3274 | Lime & gypsum product mfg | 1998.. | 372 086 | 66 404 | 24 492 | 281 191 | 375 421 | 88 454 | 23 297 | 263 671 | 4 | 23 | 5 |
| | | 1997.. | 367 367 | 86 955 | 23 371 | 257 041 | 356 494 | 92 268 | 25 612 | 238 614 | X | X | X |
| 32741 | Lime mfg | 1998.. | 147 805 | 19 309 | 14 735 | 113 761 | 143 828 | 18 725 | 13 112 | 111 992 | 1 | 10 | 8 |
| | | 1997.. | 135 382 | 15 155 | 12 948 | 107 279 | 126 690 | 18 741 | 14 426 | 93 523 | X | X | X |
| 327410 | Lime mfg | 1998.. | 147 805 | 19 309 | 14 735 | 113 761 | 143 828 | 18 725 | 13 112 | 111 992 | 1 | 10 | 8 |
| | | 1997.. | 135 382 | 15 155 | 12 948 | 107 279 | 126 690 | 18 741 | 14 426 | 93 523 | X | X | X |
| 32742 | Gypsum product mfg | 1998.. | 224 281 | 47 095 | 9 756 | 167 430 | 231 593 | 69 729 | 10 185 | 151 679 | 7 | 32 | 6 |
| | | 1997.. | 231 985 | 71 800 | 10 423 | 149 762 | 229 804 | 73 527 | 11 186 | 145 091 | X | X | X |
| 327420 | Gypsum product mfg | 1998.. | 224 281 | 47 095 | 9 756 | 167 430 | 231 593 | 69 729 | 10 185 | 151 679 | 7 | 32 | 6 |
| | | 1997.. | 231 985 | 71 800 | 10 423 | 149 762 | 229 804 | 73 527 | 11 186 | 145 091 | X | X | X |
| 3279 | Other nonmetallic mineral product mfg | 1998.. | 1 653 372 | 702 837 | 348 977 | 601 559 | 1 624 923 | 709 859 | 356 740 | 558 325 | 2 | 3 | 2 |
| | | 1997.. | 1 617 451 | 683 025 | 361 830 | 572 596 | 1 610 582 | 708 795 | 366 015 | 535 772 | X | X | X |
| 32791 | Abrasive product mfg | 1998.. | 667 208 | 226 032 | 224 871 | 216 305 | 701 784 | 252 900 | 239 786 | 209 098 | 3 | 5 | 4 |
| | | 1997.. | 706 617 | 252 314 | 244 217 | 210 086 | 718 809 | 262 571 | 254 967 | 201 271 | X | X | X |
| 327910 | Abrasive product mfg | 1998.. | 667 208 | 226 032 | 224 871 | 216 305 | 701 784 | 252 900 | 239 786 | 209 098 | 3 | 5 | 4 |
| | | 1997.. | 706 617 | 252 314 | 244 217 | 210 086 | 718 809 | 262 571 | 254 967 | 201 271 | X | X | X |
| 32799 | All other nonmetallic mineral product mfg | 1998.. | 986 165 | 476 805 | 124 106 | 385 253 | 923 138 | 456 958 | 116 953 | 349 227 | 2 | 3 | 4 |
| | | 1997.. | 910 834 | 430 711 | 117 613 | 362 510 | 891 773 | 446 224 | 111 048 | 334 501 | X | X | X |
| 327991 | Cut stone & stone product mfg | 1998.. | 167 519 | 90 065 | 33 790 | 43 664 | 151 004 | 82 633 | 27 181 | 41 190 | 7 | 11 | 12 |
| | | 1997.. | 153 405 | 78 012 | 30 458 | 44 935 | 151 335 | 85 030 | 26 243 | 40 062 | X | X | X |
| 327992 | Ground or treated mineral & earth mfg | 1998.. | 274 373 | 101 494 | 34 622 | 138 258 | 249 395 | 94 806 | 34 031 | 120 558 | 6 | 12 | 3 |
| | | 1997.. | 264 912 | 93 771 | 40 359 | 130 782 | 257 567 | 87 527 | 38 196 | 131 844 | X | X | X |
| 327993 | Mineral wool mfg | 1998.. | 347 794 | 196 020 | 25 702 | 126 072 | 338 443 | 195 377 | 22 565 | 120 500 | 1 | 1 | 5 |
| | | 1997.. | 323 673 | 184 853 | 22 951 | 115 869 | 327 514 | 201 793 | 23 566 | 102 155 | X | X | X |
| 327999 | All other miscellaneous nonmetallic mineral product mfg | 1998.. | 196 478 | 89 227 | 29 992 | 77 260 | 184 296 | 84 142 | 33 175 | 66 979 | 2 | 3 | 6 |
| | | 1997.. | 168 844 | 74 075 | 23 845 | 70 924 | 155 357 | 71 874 | 23 043 | 60 440 | X | X | X |
| 331 | Primary metal mfg | 1998.. | 22 509 656 | 7 148 322 | 7 480 711 | 7 880 623 | 22 811 507 | 6 948 665 | 8 052 737 | 7 810 104 | 1 | 1 | 1 |
| | | 1997.. | 22 802 587 | 6 946 378 | 8 076 733 | 7 779 476 | 22 340 592 | 6 734 963 | 8 242 036 | 7 363 593 | X | X | X |
| 3311 | Iron & steel mills & ferroalloy mfg | 1998.. | 9 451 268 | 3 406 054 | 2 867 813 | 3 177 400 | 9 489 316 | 3 198 234 | 3 143 052 | 3 148 030 | 1 | 1 | 1 |
| | | 1997.. | 9 460 870 | 3 197 495 | 3 146 829 | 3 116 546 | 9 205 105 | 3 084 010 | 3 043 746 | 3 077 349 | X | X | X |
| 33111 | Iron & steel mills & ferroalloy mfg | 1998.. | 9 451 268 | 3 406 054 | 2 867 813 | 3 177 400 | 9 489 316 | 3 198 234 | 3 143 052 | 3 148 030 | 1 | 1 | 1 |
| | | 1997.. | 9 460 870 | 3 197 495 | 3 146 829 | 3 116 546 | 9 205 105 | 3 084 010 | 3 043 746 | 3 077 349 | X | X | X |
| 331111 | Iron & steel mills | 1998.. | 9 451 268 | 3 406 054 | 2 867 813 | 3 177 400 | 9 489 316 | 3 198 234 | 3 143 052 | 3 148 030 | 1 | 1 | 1 |
| | | 1997.. | 9 460 870 | 3 197 495 | 3 146 829 | 3 116 546 | 9 205 105 | | | | | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|-----------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|---|----|----|---|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | A | B | C | D | E | F | G | H | X | X | X | X | |
| 331 | Primary metal mfg—Con. | | | | | | | | | | | | | |
| 3312 | Steel product mfg from purchased steel ² | 1998.. | 3 151 759 | 1 019 859 | 834 277 | 1 297 623 | 3 109 880 | 1 027 243 | 867 958 | 1 214 679 | 1 | 2 | 1 | 1 |
| | | 1997.. | 3 096 020 | 1 031 508 | 862 033 | 1 202 479 | 2 968 877 | 981 403 | 849 362 | 1 138 112 | X | X | X | X |
| 33121 | Iron & steel pipes & tubes mfg from purchased steel | 1998.. | 1 298 363 | 449 477 | 235 484 | 613 402 | 1 217 236 | 436 207 | 254 838 | 526 192 | 1 | 1 | 1 | 2 |
| | | 1997.. | 1 218 853 | 445 807 | 252 633 | 520 413 | 1 166 325 | 434 982 | 228 637 | 502 706 | X | X | X | X |
| 331210 | Iron & steel pipes & tubes mfg from purchased steel..... | 1998.. | 1 298 363 | 449 477 | 235 484 | 613 402 | 1 217 236 | 436 207 | 254 838 | 526 192 | 1 | 1 | 1 | 2 |
| | | 1997.. | 1 218 853 | 445 807 | 252 633 | 520 413 | 1 166 325 | 434 982 | 228 637 | 502 706 | X | X | X | X |
| 33122 | Rolling & drawing of purchased steel..... | 1998.. | 1 853 396 | 570 382 | 598 793 | 684 221 | 1 892 644 | 591 037 | 613 120 | 688 487 | 1 | 3 | 1 | 2 |
| | | 1997.. | 1 877 167 | 585 701 | 609 400 | 682 066 | 1 802 552 | 546 421 | 620 725 | 635 406 | X | X | X | X |
| 331221 | Cold-rolled steel shape mfg | 1998.. | 1 195 615 | 335 859 | 475 740 | 384 015 | 1 186 359 | 333 290 | 486 252 | 366 817 | 1 | 2 | 1 | 3 |
| | | 1997.. | 1 174 282 | 331 912 | 484 421 | 357 949 | 1 164 207 | 304 685 | 493 163 | 366 359 | X | X | X | X |
| 331222 | Steel wire drawing..... | 1998.. | 657 781 | 234 523 | 123 053 | 300 206 | 706 285 | 257 747 | 126 868 | 321 670 | 3 | 6 | 3 | 3 |
| | | 1997.. | 702 885 | 253 789 | 124 979 | 324 117 | 638 345 | 241 736 | 127 562 | 269 047 | X | X | X | X |
| 3313 | Alumina & aluminum production & processing | 1998.. | 3 492 146 | 840 470 | 1 201 910 | 1 449 766 | 3 667 962 | 874 452 | 1 305 541 | 1 487 970 | 1 | 1 | 1 | 1 |
| | | 1997.. | 3 695 527 | 867 846 | 1 328 961 | 1 498 720 | 3 707 328 | 826 052 | 1 562 208 | 1 319 068 | X | X | X | X |
| 33131 | Alumina & aluminum production & processing | 1998.. | 3 492 146 | 840 470 | 1 201 910 | 1 449 766 | 3 667 962 | 874 452 | 1 305 541 | 1 487 970 | 1 | 1 | 1 | 1 |
| | | 1997.. | 3 695 527 | 867 846 | 1 328 961 | 1 498 720 | 3 707 328 | 826 052 | 1 562 208 | 1 319 068 | X | X | X | X |
| 331311 | Alumina refining..... | 1998.. | 177 120 | 37 665 | 56 248 | 83 207 | 197 159 | 38 868 | 55 424 | 102 867 | 1 | 1 | 1 | 1 |
| | | 1997.. | 185 706 | 26 872 | 55 102 | 103 732 | 210 551 | 24 393 | 130 718 | 55 440 | X | X | X | X |
| 331312 | Primary aluminum production..... | 1998.. | 657 419 | 124 099 | 104 445 | 428 875 | 683 363 | 127 288 | 100 791 | 455 284 | 1 | 1 | 1 | 1 |
| | | 1997.. | 677 119 | 126 579 | 95 502 | 455 038 | 721 611 | 97 227 | 209 642 | 414 742 | X | X | X | X |
| 331314 | Secondary smelting & alloying of aluminum..... | 1998.. | 300 726 | 129 139 | 30 610 | 140 977 | 290 603 | 122 650 | 26 576 | 141 377 | 2 | 3 | 7 | 1 |
| | | 1997.. | 291 856 | 124 030 | 26 356 | 141 470 | 257 216 | 106 825 | 42 150 | 108 241 | X | X | X | X |
| 331315 | Aluminum sheet, plate, & foil mfg | 1998.. | 1 663 617 | 365 364 | 784 982 | 513 272 | 1 726 873 | 360 406 | 890 015 | 476 452 | 1 | 1 | 1 | 1 |
| | | 1997.. | 1 787 684 | 375 009 | 927 428 | 485 247 | 1 841 005 | 418 722 | 969 752 | 452 531 | X | X | X | X |
| 331316 | Aluminum extruded product mfg | 1998.. | 529 771 | 128 310 | 181 270 | 220 192 | 608 318 | 157 271 | 199 716 | 251 331 | 2 | 4 | 3 | 3 |
| | | 1997.. | 597 618 | 152 869 | 193 653 | 251 096 | 537 741 | 132 459 | 173 089 | 232 193 | X | X | X | X |
| 331319 | Other aluminum rolling & drawing | 1998.. | 163 493 | 55 894 | 44 356 | 63 243 | 161 646 | 67 969 | 33 018 | 60 659 | 1 | 4 | 1 | 1 |
| | | 1997.. | 155 544 | 62 487 | 30 920 | 62 137 | 139 204 | 46 426 | 36 857 | 55 921 | X | X | X | X |
| 3314 | Nonferrous metal (except aluminum) production & processing | 1998.. | 3 679 849 | 925 438 | 1 702 214 | 1 052 197 | 3 821 554 | 927 325 | 1 851 393 | 1 042 836 | 1 | 1 | 1 | 1 |
| | | 1997.. | 3 824 965 | 925 315 | 1 851 277 | 1 048 373 | 3 843 984 | 953 615 | 1 927 369 | 963 000 | X | X | X | X |
| 33141 | Nonferrous metal (except aluminum) smelting & refining | 1998.. | 875 748 | 184 876 | 454 941 | 235 932 | 931 626 | 178 612 | 512 818 | 240 196 | 1 | 3 | 1 | 2 |
| | | 1997.. | 920 171 | 174 838 | 509 276 | 236 057 | 974 585 | 193 715 | 540 602 | 240 268 | X | X | X | X |
| 331411 | Primary smelting & refining of copper | 1998.. | 404 951 | 69 539 | 276 095 | 59 317 | 478 912 | 74 246 | 335 547 | 69 119 | 1 | 1 | 1 | 1 |
| | | 1997.. | 478 912 | 74 246 | 335 547 | 69 119 | 527 278 | 90 582 | 357 113 | 79 583 | X | X | X | X |
| 331419 | Other nonferrous metal primary smelting & refining | 1998.. | 470 798 | 115 337 | 178 846 | 176 615 | 452 714 | 104 366 | 177 271 | 171 077 | 1 | 4 | 1 | 2 |
| | | 1997.. | 441 259 | 100 592 | 173 729 | 166 938 | 447 307 | 103 133 | 183 489 | 160 685 | X | X | X | X |
| 33142 | Copper rolling, drawing, extruding, & alloying | 1998.. | 970 913 | 277 276 | 388 022 | 305 615 | 1 023 055 | 305 440 | 428 090 | 289 525 | 1 | 1 | 1 | 2 |
| | | 1997.. | 1 032 099 | 307 174 | 433 197 | 291 728 | 1 017 462 | 297 651 | 449 742 | 270 069 | X | X | X | X |
| 331421 | Copper rolling, drawing, & extruding | 1998.. | 759 890 | 183 491 | 343 473 | 232 926 | 817 044 | 210 414 | 384 792 | 221 838 | 1 | 1 | 1 | 2 |
| | | 1997.. | 827 786 | 212 947 | 390 387 | 224 452 | 822 796 | 205 041 | 407 456 | 210 299 | X | X | X | X |
| 331422 | Copper wire (except mechanical) drawing..... | 1998.. | 130 485 | 55 579 | 29 999 | 44 908 | 119 471 | 53 333 | 28 805 | 37 333 | 4 | 2 | 12 | 4 |
| | | 1997.. | 117 843 | 52 565 | 28 340 | 36 938 | 104 872 | 47 447 | 25 708 | 31 717 | X | X | X | X |
| 331423 | Secondary smelting, refining, & alloying of copper | 1998.. | 80 538 | 38 207 | 14 551 | 27 781 | 86 540 | 41 693 | 14 493 | 30 354 | 4 | 5 | 1 | 4 |
| | | 1997.. | 86 470 | 41 662 | 14 470 | 30 338 | 89 794 | 45 163 | 16 578 | 28 053 | X | X | X | X |
| 331449 | Other nonferrous metal rolling, drawing, extruding, & alloying | 1998.. | 1 833 187 | 463 286 | 859 251 | 510 651 | 1 866 872 | 443 272 | 910 484 | 513 116 | 1 | 1 | 1 | 1 |
| | | 1997.. | 1 872 695 | 443 303 | 908 804 | 520 588 | 1 851 937 | 462 249 | 937 025 | 452 663 | X | X | X | X |
| 331491 | Other nonferrous metal rolling, drawing, & extruding | 1998.. | 1 388 185 | 309 315 | 709 097 | 369 773 | 1 415 460 | 300 275 | 743 063 | 372 122 | 1 | 2 | 1 | 1 |
| | | 1997.. | 1 420 729 | 300 668 | 741 794 | 378 267 | 1 415 465 | 301 994 | 781 093 | 332 378 | X | X | X | X |
| 331492 | Other nonferrous metal secondary smelting, refining, & alloying | 1998.. | 445 002 | 153 971 | 150 154 | 140 878 | 451 412 | 142 997 | 167 421 | 140 994 | 1 | 2 | 2 | 2 |
| | | 1997.. | 451 966 | 142 635 | 167 010 | 142 321 | 436 472 | 160 255 | 155 932 | 120 285 | X | X | X | X |
| 3315 | Foundries | 1998.. | 2 734 635 | 956 501 | 874 497 | 903 637 | 2 722 795 | 921 412 | 884 794 | 916 589 | 1 | 2 | 2 | 1 |
| | | 1997.. | 2 725 205 | 924 214 | 887 633 | 913 358 | 2 615 298 | 889 883 | 859 351 | 866 064 | X | X | X | X |
| 33151 | Ferrous metal foundries | 1998.. | 1 663 362 | 667 572 | 477 683 | 518 108 | 1 663 194 | 624 806 | 496 213 | 542 175 | 2 | 3 | 3 | 2 |
| | | 1997.. | 1 682 563 | 633 388 | 505 032 | 544 143 | 1 621 366 | 618 592 | 478 553 | 524 221 | X | X | X | X |
| 331511 | Iron foundries | 1998.. | 1 013 972 | 477 892 | 214 456 | 321 624 | 1 013 093 | 454 480 | 212 104 | 346 509 | 3 | 2 | 5 | 3 |
| | | 1997.. | 1 033 048 | 461 542 | 222 719 | 348 787 | 999 482 | 462 852 | 220 502 | 316 128 | X | X | X | X |
| 331512 | Steel investment foundries | 1998.. | 284 422 | 61 733 | 146 677 | 76 013 | 297 521 | 48 919 | 164 966 | 83 636 | 5 | 26 | 5 | 2 |
| | | 1997.. | 299 118 | 49 418 | 164 751 | 84 949 | 276 155 | 39 256 | 145 256 | 91 643 | X | X | X | X |
| 331513 | Steel foundries (except investment) | 1998.. | 364 967 | 127 946 | 116 550 | 120 472 | 352 580 | 121 407 | 119 143 | 112 030 | 1 | 2 | 1 | 1 |
| | | 1997.. | 350 397 | 122 428 | 117 562 | 110 407 | 345 729 | 116 484 | 112 795 | 116 450 | X | X | X | X |
| 331512 | Nonferrous metal foundries | 1998.. | 1 071 273 | 288 930 | 396 814 | 385 529 | 1 059 601 | 296 605 | 388 581 | 374 414 | 1 | 2 | 2 | 2 |
| | | 1997.. | 1 042 642 | 290 826 | 382 601 | 369 215 | 993 932 | 271 291 | 380 798 | 341 843 | X | X | X | X |
| 331521 | Aluminum die-casting foundries | 1998.. | 343 101 | 101 273 | 123 522 | 118 305 | 335 592 | 105 454 | 105 789 | 124 349 | 2 | 2 | 3 | 3 |
| | | 1997.. | 333 983 | 105 137 | 104 935 | 123 911 | 322 234 | 98 423 | 112 916 | 110 695 | X | X | X | X |

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|--------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|---|----|----|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | A | B | C | D | E | F | G | H | A | B | C | D | |
| 331 | Primary metal mfg—Con. | | | | | | | | | | | | | |
| 3315 | Foundries—Con. | | | | | | | | | | | | | |
| 33152 | Nonferrous metal foundries—Con. | | | | | | | | | | | | | |
| 331522 | Nonferrous (except aluminum) die-casting foundries..... | 1998.. | 196 833 | 62 994 | 70 834 | 63 005 | 192 970 | 65 214 | 64 908 | 62 848 | 4 | 5 | 8 | 7 |
| | | 1997.. | 184 788 | 62 533 | 62 698 | 59 557 | 185 415 | 63 471 | 63 572 | 58 372 | X | X | X | X |
| 331524 | Aluminum foundries (except die-casting)..... | 1998.. | 313 542 | 71 924 | 110 115 | 131 503 | 309 325 | 71 626 | 122 207 | 115 491 | 1 | 2 | 3 | 3 |
| | | 1997.. | 305 076 | 70 038 | 120 813 | 114 225 | 292 813 | 70 372 | 115 991 | 106 450 | X | X | X | X |
| 331525 | Copper foundries (except die-casting)..... | 1998.. | 90 545 | 26 180 | 28 282 | 36 083 | 88 476 | 26 853 | 29 986 | 31 637 | 4 | 12 | 7 | 7 |
| | | 1997.. | 87 152 | 26 073 | 29 369 | 31 710 | 78 284 | 21 577 | 26 121 | 30 586 | X | X | X | X |
| 331528 | Other nonferrous foundries (except die-casting)..... | 1998.. | 127 253 | 26 559 | 64 061 | 36 633 | 133 238 | 27 458 | 65 691 | 40 089 | 3 | 3 | 3 | 9 |
| | | 1997.. | 131 643 | 27 045 | 64 786 | 39 812 | 115 186 | 17 448 | 62 198 | 35 540 | X | X | X | X |
| 332 | Fabricated metal product mfg..... | 1998.. | 32 745 656 | 10 851 372 | 10 301 247 | 11 593 037 | 31 900 470 | 10 478 654 | 10 138 579 | 11 283 237 | 1 | 1 | 1 | 1 |
| | | 1997.. | 31 935 810 | 10 325 866 | 10 267 280 | 11 342 664 | 30 668 650 | 10 073 794 | 9 784 986 | 10 809 870 | X | X | X | X |
| 3321 | Forging & stamping..... | 1998.. | 3 238 143 | 943 762 | 1 055 676 | 1 238 706 | 3 213 876 | 846 513 | 1 099 821 | 1 267 542 | 1 | 3 | 3 | 2 |
| | | 1997.. | 3 195 799 | 840 779 | 1 090 097 | 1 264 923 | 2 949 426 | 813 174 | 987 347 | 1 148 905 | X | X | X | X |
| 33211 | Forging & stamping..... | 1998.. | 3 238 143 | 943 762 | 1 055 676 | 1 238 706 | 3 213 876 | 846 513 | 1 099 821 | 1 267 542 | 1 | 3 | 3 | 2 |
| | | 1997.. | 3 195 799 | 840 779 | 1 090 097 | 1 264 923 | 2 949 426 | 813 174 | 987 347 | 1 148 905 | X | X | X | X |
| 332111 | Iron & steel forging..... | 1998.. | 839 209 | 186 783 | 360 603 | 291 823 | 829 076 | 122 668 | 387 065 | 319 343 | 2 | 13 | 6 | 4 |
| | | 1997.. | 811 169 | 117 999 | 384 348 | 308 822 | 702 385 | 104 409 | 353 157 | 244 819 | X | X | X | X |
| 332112 | Nonferrous forging..... | 1998.. | 309 855 | 37 734 | 177 665 | 94 456 | 315 674 | 36 943 | 180 237 | 98 494 | 1 | 1 | 1 | 1 |
| | | 1997.. | 315 028 | 36 629 | 178 916 | 99 483 | 281 167 | 42 108 | 163 727 | 75 332 | X | X | X | X |
| 332114 | Custom roll forming..... | 1998.. | 449 730 | 137 681 | 85 799 | 226 249 | 472 555 | 141 212 | 103 197 | 228 147 | 7 | 3 | 14 | 9 |
| | | 1997.. | 473 167 | 139 379 | 103 045 | 230 743 | 417 933 | 132 912 | 75 372 | 209 649 | X | X | X | X |
| 332115 | Crown & closure mfg..... | 1998.. | 115 931 | 60 203 | 18 872 | 36 857 | 119 150 | 58 650 | 16 179 | 44 321 | 1 | 1 | 1 | 1 |
| | | 1997.. | 126 902 | 62 451 | 17 845 | 46 606 | 129 164 | 58 719 | 26 214 | 44 231 | X | X | X | X |
| 332116 | Metal stamping..... | 1998.. | 1 368 012 | 480 052 | 342 239 | 545 721 | 1 326 808 | 449 455 | 343 960 | 533 393 | 1 | 2 | 2 | 2 |
| | | 1997.. | 1 315 147 | 447 312 | 335 603 | 532 232 | 1 271 175 | 434 319 | 317 829 | 519 027 | X | X | X | X |
| 332117 | Powder metallurgy part mfg..... | 1998.. | 155 405 | 41 309 | 70 496 | 43 600 | 150 613 | 37 585 | 69 183 | 43 845 | 2 | 4 | 1 | 3 |
| | | 1997.. | 154 386 | 37 009 | 70 340 | 47 037 | 147 602 | 40 707 | 51 048 | 55 847 | X | X | X | X |
| 3322 | Cutlery & handtool mfg..... | 1998.. | 1 955 018 | 746 168 | 653 496 | 555 354 | 1 939 766 | 847 515 | 579 589 | 512 661 | 5 | 10 | 8 | 3 |
| | | 1997.. | 1 955 369 | 851 144 | 581 165 | 523 060 | 1 908 565 | 861 044 | 542 540 | 504 981 | X | X | X | X |
| 33221 | Cutlery & handtool mfg..... | 1998.. | 1 955 018 | 746 168 | 653 496 | 555 354 | 1 939 766 | 847 515 | 579 589 | 512 661 | 5 | 10 | 8 | 3 |
| | | 1997.. | 1 955 369 | 851 144 | 581 165 | 523 060 | 1 908 565 | 861 044 | 542 540 | 504 981 | X | X | X | X |
| 332211 | Cutlery & flatware (except precious) mfg..... | 1998.. | 291 725 | 125 753 | 84 963 | 81 010 | 305 266 | 129 686 | 99 708 | 75 872 | 2 | 2 | 2 | 3 |
| | | 1997.. | 329 399 | 141 138 | 103 036 | 85 225 | 282 562 | 117 410 | 86 365 | 78 787 | X | X | X | X |
| 332212 | Hand & edge tool mfg..... | 1998.. | 1 202 509 | 436 381 | 449 533 | 316 594 | 1 181 681 | 505 715 | 380 983 | 294 983 | 7 | 16 | 11 | 4 |
| | | 1997.. | 1 172 346 | 500 824 | 378 344 | 293 178 | 1 156 874 | 518 472 | 359 146 | 279 256 | X | X | X | X |
| 332213 | Saw blade & handsaw mfg..... | 1998.. | 240 686 | 111 699 | 63 934 | 65 053 | 241 646 | 119 550 | 54 272 | 67 824 | 4 | 7 | 13 | 13 |
| | | 1997.. | 231 239 | 112 514 | 53 286 | 65 439 | 238 617 | 129 037 | 51 270 | 58 310 | X | X | X | X |
| 332214 | Kitchen utensil, pot, & pan mfg..... | 1998.. | 220 097 | 72 335 | 55 066 | 92 697 | 211 172 | 92 565 | 44 626 | 73 981 | 6 | 33 | 3 | 13 |
| | | 1997.. | 222 385 | 96 668 | 46 499 | 79 218 | 230 512 | 96 125 | 45 759 | 88 628 | X | X | X | X |
| 3323 | Architectural & structural metals mfg..... | 1998.. | 6 473 301 | 1 611 208 | 1 910 658 | 2 951 435 | 6 138 152 | 1 522 295 | 1 845 935 | 2 769 922 | 1 | 1 | 2 | 1 |
| | | 1997.. | 6 148 485 | 1 493 535 | 1 867 303 | 2 787 647 | 5 804 026 | 1 434 700 | 1 685 540 | 2 683 786 | X | X | X | X |
| 33231 | Plate work & fabricated structural product mfg..... | 1998.. | 2 696 368 | 534 681 | 1 063 224 | 1 098 464 | 2 624 750 | 521 823 | 1 054 397 | 1 048 530 | 1 | 2 | 2 | 2 |
| | | 1997.. | 2 666 213 | 519 765 | 1 069 742 | 1 076 706 | 2 483 897 | 483 703 | 966 728 | 1 033 466 | X | X | X | X |
| 332311 | Prefabricated metal building & component mfg..... | 1998.. | 388 429 | 85 448 | 73 369 | 229 613 | 364 747 | 79 557 | 63 186 | 222 003 | 4 | 7 | 9 | 7 |
| | | 1997.. | 382 734 | 81 608 | 67 819 | 233 307 | 361 433 | 68 183 | 60 349 | 232 901 | X | X | X | X |
| 332312 | Fabricated structural metal mfg..... | 1998.. | 1 973 216 | 400 622 | 831 612 | 740 982 | 1 903 576 | 395 260 | 809 846 | 698 469 | 1 | 2 | 2 | 2 |
| | | 1997.. | 1 919 101 | 387 167 | 825 919 | 706 015 | 1 780 655 | 376 847 | 738 880 | 664 928 | X | X | X | X |
| 332313 | Plate work mfg..... | 1998.. | 334 723 | 48 611 | 158 243 | 127 869 | 356 428 | 47 006 | 181 364 | 128 058 | 4 | 5 | 8 | 5 |
| | | 1997.. | 364 378 | 50 990 | 176 004 | 137 384 | 341 809 | 38 673 | 167 499 | 135 637 | X | X | X | X |
| 33232 | Ornamental & architectural metal products mfg..... | 1998.. | 3 776 933 | 1 076 527 | 847 434 | 1 852 972 | 3 513 402 | 1 000 471 | 791 539 | 1 721 392 | 1 | 2 | 2 | 1 |
| | | 1997.. | 3 482 272 | 973 770 | 797 561 | 1 710 941 | 3 320 129 | 950 997 | 718 812 | 1 650 320 | X | X | X | X |
| 332321 | Metal window & door mfg..... | 1998.. | 1 222 566 | 359 736 | 183 054 | 679 775 | 1 146 540 | 321 753 | 169 072 | 655 715 | 2 | 5 | 5 | 2 |
| | | 1997.. | 1 137 032 | 316 842 | 167 296 | 652 894 | 1 092 250 | 313 246 | 158 280 | 620 724 | X | X | X | X |
| 332322 | Sheet metal work mfg..... | 1998.. | 2 001 003 | 522 823 | 552 037 | 926 143 | 1 864 074 | 500 138 | 514 352 | 849 585 | 1 | 3 | 2 | 2 |
| | | 1997.. | 1 843 551 | 476 791 | 523 204 | 843 556 | 1 731 138 | 457 407 | 457 888 | 815 843 | X | X | X | X |
| 332323 | Ornamental & architectural metal work mfg..... | 1998.. | 553 364 | 193 968 | 112 343 | 247 053 | 502 787 | 178 581 | 108 114 | 216 092 | 2 | 2 | 5 | 3 |
| | | 1997.. | 501 689 | 180 137 | 107 061 | 214 491 | 496 741 | 180 344 | 102 644 | 213 753 | X | X | X | X |
| 3324 | Boiler, tank, & shipping container mfg..... | 1998.. | 2 892 730 | 1 118 878 | 805 916 | 967 935 | 2 914 659 | 1 038 712 | 821 053 | 1 054 895 | 1 | 1 | 2 | 2 |
| | | 1997.. | 2 890 553 | 1 031 619 | 824 212 | 1 034 722 | 2 782 978 | 941 464 | 811 167 | 1 030 347 | X | X | X | X |
| 33241 | Power boiler & heat exchanger mfg..... | 1998.. | 625 774 | 91 194 | 331 266 | 203 313 | 587 669 | 75 048 | 323 948 | 188 672 | 2 | 2 | 3 | 5 |
| | | 1997.. | 607 712 | 86 893 | 330 405 | 190 414 | 582 297 | 85 209 | 305 306 | 191 782 | X | X | X | X |
| 332410 | Power boiler & heat exchanger mfg..... | 1998.. | 625 774 | 91 194 | 331 266 | 203 313 | 587 669 | 75 048 | 323 948 | 188 672 | 2 | 2 | 3 | 5 |
| | | 1997.. | 607 712 | 86 893 | 330 405 | 190 414 | 582 297 | 85 209 | 305 306 | 191 782 | X | X | X | X |
| 33242 | Metal tank (heavy gauge) mfg..... | 1998.. | 651 416 | 118 145 | 243 423 | 289 848 | 636 092 | 111 358 | 245 764 | 278 970 | 3 | 8 | 6 | 3 |
| | | 1997.. | 633 068 | 116 069 | 251 401 | 265 598 | 617 164 | 101 962 | 253 718 | 261 484 | X | X | X | X |
| 33243 | Metal can, box, & other metal container (light gauge) mfg .. | 1998.. | 1 615 540 | 909 539 | 231 227 | 474 774 | 1 690 898 | 852 305 | 251 341 | 587 253 | 1 | 1 | 5 | 2 |
| | | 1997.. | 1 649 773 | 828 657 | 242 406 | 578 710 | 1 583 517 | 754 293 | 252 143 | 577 081 | X | X | X | X |
| 332431 | Metal can mfg .. | 1998.. | 1 283 366 | 810 734 | 163 305 | 309 326 | 1 321 722 | 752 639 | 166 813 | 402 270 | 1 | 1 | 2 | 1 |
| | | 1997.. | 1 327 647 | 755 277 | 172 809 | 399 561 | 1 259 714 | 692 906 | 171 167 | | | | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | |
|------------|------------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|----|----|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | A | B | C | D |
| 332 | Fabricated metal product mfg—Con. | | | | | | | | | | | | |
| 3325 | Hardware mfg | 1 328 875 | 442 040 | 426 684 | 460 151 | 1 292 269 | 421 280 | 441 024 | 429 966 | 1 | 2 | 2 | 1 |
| | 1998.. | 1 310 970 | 424 988 | 448 791 | 437 191 | 1 249 693 | 401 100 | 432 941 | 415 652 | X | X | X | X |
| 33251 | Hardware mfg | 1 328 875 | 442 040 | 426 684 | 460 151 | 1 292 269 | 421 280 | 441 024 | 429 966 | 1 | 2 | 2 | 1 |
| | 1997.. | 1 310 970 | 424 988 | 448 791 | 437 191 | 1 249 693 | 401 100 | 432 941 | 415 652 | X | X | X | X |
| 332510 | Hardware mfg | 1 328 875 | 442 040 | 426 684 | 460 151 | 1 292 269 | 421 280 | 441 024 | 429 966 | 1 | 2 | 2 | 1 |
| | 1998.. | 1 310 970 | 424 988 | 448 791 | 437 191 | 1 249 693 | 401 100 | 432 941 | 415 652 | X | X | X | X |
| | 1997.. | | | | | | | | | | | | |
| 3326 | Spring & wire product mfg | 1 026 416 | 487 752 | 192 937 | 345 726 | 1 006 623 | 479 373 | 174 974 | 352 275 | 3 | 5 | 6 | 4 |
| | 1998.. | 1 002 834 | 470 279 | 174 843 | 357 712 | 970 160 | 457 305 | 169 041 | 343 814 | X | X | X | X |
| 33261 | Spring & wire product mfg | 1 026 416 | 487 752 | 192 937 | 345 726 | 1 006 623 | 479 373 | 174 974 | 352 275 | 3 | 5 | 6 | 4 |
| | 1997.. | 1 002 834 | 470 279 | 174 843 | 357 712 | 970 160 | 457 305 | 169 041 | 343 814 | X | X | X | X |
| 332611 | Spring (heavy gauge) mfg | 107 537 | 53 499 | 28 096 | 25 942 | 121 548 | 66 094 | 16 159 | 39 295 | 22 | 36 | 30 | 48 |
| | 1998.. | 116 985 | 64 384 | 14 950 | 37 651 | 106 085 | 56 537 | 16 757 | 32 791 | X | X | X | X |
| 332612 | Spring (light gauge) mfg | 223 200 | 118 190 | 32 365 | 72 645 | 215 091 | 110 039 | 33 689 | 71 363 | 3 | 4 | 4 | 3 |
| | 1997.. | 204 743 | 107 234 | 31 494 | 66 015 | 202 411 | 108 502 | 28 174 | 65 735 | X | X | X | X |
| 332618 | Other fabricated wire product mfg | 695 678 | 316 063 | 132 476 | 247 139 | 669 983 | 303 240 | 125 127 | 241 617 | 2 | 3 | 5 | 3 |
| | 1998.. | 681 106 | 298 661 | 128 399 | 254 046 | 661 664 | 292 266 | 124 110 | 245 288 | X | X | X | X |
| | 1997.. | | | | | | | | | | | | |
| 3327 | Machine shops, turned product, & screw, nut, & bolt mfg | 5 276 697 | 1 612 140 | 2 323 376 | 1 341 180 | 5 073 739 | 1 529 192 | 2 302 542 | 1 242 005 | 2 | 3 | 3 | 3 |
| | 1998.. | 5 202 469 | 1 483 615 | 2 441 592 | 1 277 262 | 4 978 840 | 1 490 246 | 2 281 823 | 1 206 771 | X | X | X | X |
| 33271 | Machine shops | 3 063 772 | 674 536 | 1 619 550 | 769 685 | 2 975 487 | 661 534 | 1 616 257 | 697 696 | 4 | 7 | 5 | 4 |
| | 1997.. | 3 100 323 | 603 220 | 1 752 931 | 744 172 | 2 942 258 | 606 686 | 1 658 662 | 676 910 | X | X | X | X |
| 332710 | Machine shops | 3 063 772 | 674 536 | 1 619 550 | 769 685 | 2 975 487 | 661 534 | 1 616 257 | 697 696 | 4 | 7 | 5 | 4 |
| | 1997.. | 3 100 323 | 603 220 | 1 752 931 | 744 172 | 2 942 258 | 606 686 | 1 658 662 | 676 910 | X | X | X | X |
| 33272 | Turned product & screw, nut, & bolt mfg | 2 212 925 | 937 604 | 703 826 | 571 495 | 2 098 252 | 867 658 | 686 285 | 544 309 | 2 | 2 | 2 | 3 |
| | 1997.. | 2 102 146 | 880 395 | 688 661 | 533 090 | 2 036 582 | 883 560 | 623 161 | 529 861 | X | X | X | X |
| 332721 | Precision turned product mfg | 900 156 | 319 390 | 332 154 | 248 612 | 867 030 | 297 370 | 328 689 | 240 972 | 3 | 6 | 3 | 5 |
| | 1998.. | 876 430 | 307 898 | 326 755 | 241 777 | 826 701 | 293 251 | 305 645 | 227 805 | X | X | X | X |
| 332722 | Bolt, nut, screw, rivet, & washer mfg | 1 312 769 | 618 214 | 371 672 | 322 883 | 1 231 222 | 570 288 | 357 597 | 303 337 | 1 | 1 | 1 | 3 |
| | 1997.. | 1 225 716 | 572 497 | 361 906 | 291 313 | 1 209 881 | 590 309 | 317 516 | 302 056 | X | X | X | X |
| | 1998.. | | | | | | | | | | | | |
| 3328 | Coating, engraving, heat treating, & allied activities | 1 685 450 | 552 429 | 325 702 | 807 319 | 1 652 897 | 525 858 | 321 081 | 805 958 | 1 | 2 | 1 | 1 |
| | 1997.. | 1 650 909 | 523 445 | 327 693 | 799 771 | 1 558 583 | 545 250 | 313 022 | 700 311 | X | X | X | X |
| 33281 | Coating, engraving, heat treating, & allied activities | 1 685 450 | 552 429 | 325 702 | 807 319 | 1 652 897 | 525 858 | 321 081 | 805 958 | 1 | 2 | 1 | 1 |
| | 1997.. | 1 650 909 | 523 445 | 327 693 | 799 771 | 1 558 583 | 545 250 | 313 022 | 700 311 | X | X | X | X |
| 332811 | Metal heat treating | 421 569 | 125 464 | 116 352 | 179 754 | 418 360 | 126 601 | 117 025 | 174 735 | 2 | 6 | 3 | 4 |
| | 1998.. | 430 979 | 122 537 | 120 840 | 187 602 | 395 371 | 123 845 | 106 843 | 164 683 | X | X | X | X |
| 332812 | Metal coating/engraving (exc jewelry/silverware)/allied services | 912 905 | 330 171 | 156 757 | 425 977 | 890 982 | 304 364 | 152 920 | 433 698 | 1 | 1 | 1 | 2 |
| | 1997.. | 872 130 | 307 288 | 155 735 | 409 107 | 828 305 | 320 008 | 149 521 | 358 776 | X | X | X | X |
| 332813 | Electroplating, plating, polishing, anodizing, & coloring | 350 976 | 96 795 | 52 593 | 201 588 | 343 555 | 94 894 | 51 136 | 197 526 | 2 | 2 | 4 | 1 |
| | 1997.. | 347 800 | 93 620 | 51 118 | 203 062 | 334 907 | 101 397 | 56 658 | 176 852 | X | X | X | X |
| | 1998.. | | | | | | | | | | | | |
| 3329 | Other fabricated metal product mfg | 8 869 028 | 3 336 995 | 2 606 802 | 2 925 231 | 8 668 489 | 3 267 916 | 2 552 560 | 2 848 013 | 1 | 2 | 1 | 1 |
| | 1997.. | 8 578 422 | 3 206 462 | 2 511 584 | 2 860 376 | 8 466 379 | 3 129 511 | 2 561 565 | 2 775 303 | X | X | X | X |
| 33291 | Metal valve mfg | 4 299 289 | 1 796 069 | 1 109 490 | 1 393 729 | 4 280 100 | 1 749 996 | 1 109 828 | 1 420 276 | 1 | 2 | 3 | 2 |
| | 1998.. | 4 313 013 | 1 761 660 | 1 114 532 | 1 436 821 | 4 208 954 | 1 740 471 | 1 154 777 | 1 313 706 | X | X | X | X |
| 332911 | Industrial valve mfg | 1 951 997 | 736 175 | 534 541 | 681 281 | 2 006 041 | 744 270 | 548 325 | 713 446 | 1 | 1 | 4 | 2 |
| | 1997.. | 1 975 424 | 721 479 | 536 293 | 717 652 | 1 945 979 | 727 708 | 601 432 | 616 839 | X | X | X | X |
| 332912 | Fluid power valve & hose fitting mfg | 1 323 339 | 576 659 | 343 280 | 403 401 | 1 261 425 | 545 554 | 329 051 | 386 820 | 1 | 2 | 3 | 4 |
| | 1997.. | 1 255 438 | 539 571 | 330 570 | 385 297 | 1 224 660 | 544 754 | 322 022 | 357 884 | X | X | X | X |
| 332913 | Plumbing fixture fitting & trim mfg | 523 567 | 207 706 | 120 092 | 195 769 | 552 488 | 241 412 | 132 002 | 179 075 | 8 | 14 | 2 | 7 |
| | 1998.. | 566 796 | 249 845 | 133 985 | 182 966 | 537 567 | 230 005 | 126 324 | 181 238 | X | X | X | X |
| 332919 | Other metal valve & pipe fitting mfg | 500 386 | 275 529 | 111 577 | 113 279 | 460 146 | 218 760 | 100 450 | 140 936 | 6 | 11 | 14 | 17 |
| | 1997.. | 515 355 | 250 765 | 113 684 | 150 906 | 238 004 | 104 999 | 157 745 | 157 745 | X | X | X | X |
| 33299 | All other fabricated metal product mfg | 4 569 739 | 1 540 926 | 1 497 312 | 1 531 502 | 4 388 389 | 1 517 920 | 1 442 732 | 1 427 736 | 1 | 2 | 2 | 1 |
| | 1997.. | 4 265 409 | 1 444 802 | 1 397 052 | 1 423 555 | 4 257 425 | 1 389 040 | 1 406 788 | 1 461 597 | X | X | X | X |
| 332991 | Ball & roller bearing mfg | 1 040 837 | 393 323 | 363 661 | 283 853 | 1 003 497 | 351 765 | 360 714 | 291 018 | 1 | 1 | 1 | 1 |
| | 1997.. | 960 594 | 316 998 | 356 275 | 287 321 | 963 018 | 302 232 | 358 469 | 302 317 | X | X | X | X |
| 332992 | Small arms ammunition mfg | 219 179 | 97 597 | 51 035 | 70 546 | 229 640 | 113 790 | 51 225 | 64 625 | 1 | 1 | 1 | 1 |
| | 1997.. | 226 891 | 114 015 | 48 417 | 64 459 | 227 534 | 106 542 | 49 074 | 71 918 | X | X | X | X |
| 332993 | Ammunition (except small arms) mfg | 131 707 | 10 767 | 107 876 | 13 064 | 138 277 | 7 450 | 117 469 | 13 358 | 1 | 5 | 1 | 2 |
| | 1997.. | 135 143 | 7 706 | 113 909 | 13 528 | 179 106 | 9 828 | 155 420 | 13 858 | X | X | X | X |
| 332994 | Small arms mfg | 361 932 | 147 130 | 108 211 | 106 591 | 355 538 | 146 867 | 107 402 | 101 269 | 1 | 2 | 1 | 1 |
| | 1997.. | 353 674 | 146 557 | 106 186 | 100 931 | 374 456 | 149 803 | 120 140 | 104 513 | X | X | X | X |
| 332995 | Other ordnance & accessories mfg | 239 695 | 5 163 | 197 388 | 37 144 | 262 297 | 62 105 | 158 290 | 41 902 | 1 | 1 | 1 | 1 |
| | 1997.. | 264 045 | 61 798 | 160 224 | 42 023 | 253 521 | 61 828 | 146 509 | 45 184 | X | X | X | X |
| 332996 | Fabricated pipe & pipe fitting mfg | 706 906 | 248 981 | 161 048 | 296 876 | 688 730 | 254 020 | 163 306 | 271 404 | 3 | 3 | 5 | 5 |
| | 1997.. | 670 721 | 232 793 | 164 353 | 273 575 | 658 451 | 215 916 | 153 613 | 288 922 | X | X | X | X |
| 332997 | Industrial pattern mfg | 64 836 | 13 681 | 41 471 | 9 685 | 48 306 | 5 661 | 33 097 | 9 548 | 26 | A | 17 | 13 |
| | 1997.. | 50 733 | 6 219 | 34 167 | 10 347 | 50 628 | 7 394 | 32 983 | 10 251 | X | X | X | X |
| 332998 | Enameling iron & metal sanitary ware mfg | 250 378 | 92 420 | 72 481 | 85 477 | 244 879 | 91 114 | 71 718 | 82 047 | 1 | 1 | 1 | 1 |
| | 1998.. | 249 823 | 92 586 | 73 323 | 83 914 | 233 618 | 87 953 | 61 463 | 84 202 | X | X | X | X |
| 332999 | All other miscellaneous fabricated metal product mfg | 1 554 269 | 531 964 | 394 140 | 628 264 | 1 417 225 | 485 149 | 379 511 | 552 565 | 3 | 4 | 5 | 2 |
| | 1997.. | 1 353 785 | 466 130 | 340 198 | 547 457 | 1 317 093 | 447 544 | 329 117 | 540 432 | X | X | X | X |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | | |
|------------|----------------------------------------------------------------------|--------------------|------------|-------------------|-----------------|----------------------------------|--------------------|------------|-------------------|------------------------------------------------------------------------|----------------------------------|----|----|----|---|
| | | Total ¹ | | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | A | B | C | D | | |
| 333 | Machinery mfg | 1998.. | 45 561 744 | 14 791 336 | 15 250 821 | 15 519 587 | 43 993 901 | 13 835 536 | 15 545 601 | 14 612 764 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 44 610 476 | 14 124 146 | 15 552 514 | 14 933 816 | 43 166 534 | 13 510 499 | 15 609 513 | 14 046 522 | X | X | X | X | |
| 3331 | Agriculture, construction, & mining machinery mfg | 1998.. | 9 663 075 | 4 343 506 | 2 327 803 | 2 991 767 | 9 052 395 | 3 932 442 | 2 168 910 | 2 951 043 | 1 | 1 | 1 | 2 | |
| | | 1997.. | 9 224 299 | 3 992 034 | 2 144 457 | 3 087 414 | 8 601 468 | 3 540 629 | 2 306 892 | 2 753 947 | X | X | X | X | |
| 33311 | Agricultural implement mfg | 1998.. | 3 556 279 | 1 795 437 | 745 457 | 1 015 386 | 3 444 703 | 1 727 714 | 719 706 | 997 283 | 1 | 2 | 1 | 1 | |
| | | 1997.. | 3 438 272 | 1 717 233 | 727 608 | 993 431 | 3 154 924 | 1 556 143 | 717 600 | 881 181 | X | X | X | X | |
| 333111 | Farm machinery & equipment mfg | 1998.. | 2 346 990 | 989 219 | 596 315 | 761 456 | 2 285 633 | 975 135 | 598 183 | 712 315 | 2 | 3 | 2 | 2 | |
| | | 1997.. | 2 277 103 | 964 146 | 602 038 | 710 919 | 2 071 759 | 885 146 | 582 521 | 604 092 | X | X | X | X | |
| 333112 | Lawn & garden tractor & home lawn & garden equipment mfg | 1998.. | 1 209 289 | 806 218 | 149 142 | 253 930 | 1 159 070 | 752 579 | 121 523 | 284 968 | 1 | 2 | 2 | 2 | |
| | | 1997.. | 1 161 169 | 753 087 | 125 570 | 282 512 | 1 083 165 | 670 997 | 135 079 | 277 089 | X | X | X | X | |
| 33312 | Construction machinery mfg | 1998.. | 3 680 636 | 1 207 678 | 1 096 786 | 1 376 172 | 3 386 333 | 1 004 686 | 984 865 | 1 396 783 | 2 | 4 | 1 | 3 | |
| | | 1997.. | 3 537 790 | 1 030 639 | 945 999 | 1 561 152 | 3 468 718 | 960 601 | 1 172 672 | 1 335 245 | X | X | X | X | |
| 333120 | Construction machinery mfg | 1998.. | 3 680 636 | 1 207 678 | 1 096 786 | 1 376 172 | 3 386 333 | 1 004 686 | 984 865 | 1 396 783 | 2 | 4 | 1 | 3 | |
| | | 1997.. | 3 537 790 | 1 030 639 | 945 999 | 1 561 152 | 3 468 718 | 960 601 | 1 172 672 | 1 335 245 | X | X | X | X | |
| 33313 | Mining & oil & gas field machinery mfg | 1998.. | 2 426 160 | 1 340 390 | 485 561 | 600 208 | 2 221 358 | 1 200 042 | 464 339 | 556 977 | 2 | 2 | 5 | 2 | |
| | | 1997.. | 2 248 237 | 1 244 162 | 471 244 | 532 831 | 1 977 826 | 1 023 885 | 416 420 | 537 521 | X | X | X | X | |
| 333131 | Mining machinery & equipment mfg | 1998.. | 663 286 | 343 011 | 157 079 | 163 196 | 645 245 | 344 614 | 136 399 | 164 232 | 3 | 3 | 3 | 7 | |
| | | 1997.. | 600 500 | 330 154 | 128 973 | 141 373 | 572 472 | 308 802 | 121 156 | 142 514 | X | X | X | X | |
| 333132 | Oil & gas field machinery & equipment mfg | 1998.. | 1 762 873 | 997 379 | 328 481 | 437 013 | 1 576 113 | 855 428 | 327 940 | 392 745 | 2 | 2 | 7 | 2 | |
| | | 1997.. | 1 647 737 | 914 008 | 342 271 | 391 458 | 1 405 354 | 715 083 | 295 264 | 395 007 | X | X | X | X | |
| 3332 | Industrial machinery mfg | 1998.. | 6 911 132 | 1 657 717 | 2 346 067 | 2 907 347 | 7 169 668 | 1 719 197 | 2 635 859 | 2 814 612 | 2 | 3 | 3 | 2 | |
| | | 1997.. | 7 224 858 | 1 772 084 | 2 620 541 | 2 832 233 | 6 653 322 | 1 641 023 | 2 459 456 | 2 552 843 | X | X | X | X | |
| 33321 | Sawmill & woodworking machinery mfg | 1998.. | 216 706 | 83 853 | 70 750 | 62 103 | 197 399 | 75 744 | 68 920 | 52 735 | 10 | 23 | 11 | 5 | |
| | | 1997.. | 191 951 | 69 870 | 68 789 | 53 292 | 186 371 | 71 274 | 70 012 | 45 085 | X | X | X | X | |
| 333210 | Sawmill & woodworking machinery mfg | 1998.. | 216 706 | 83 853 | 70 750 | 62 103 | 197 399 | 75 744 | 68 920 | 52 735 | 10 | 23 | 11 | 5 | |
| | | 1997.. | 191 951 | 69 870 | 68 789 | 53 292 | 186 371 | 71 274 | 70 012 | 45 085 | X | X | X | X | |
| 33322 | Plastics & rubber industry machinery mfg | 1998.. | 619 483 | 207 470 | 219 940 | 192 072 | 677 567 | 221 344 | 245 730 | 210 493 | 7 | 2 | 14 | 6 | |
| | | 1997.. | 670 136 | 224 354 | 248 172 | 197 610 | 625 746 | 203 631 | 236 068 | 186 047 | X | X | X | X | |
| 333220 | Plastics & rubber industry machinery mfg | 1998.. | 619 483 | 207 470 | 219 940 | 192 072 | 677 567 | 221 344 | 245 730 | 210 493 | 7 | 2 | 14 | 6 | |
| | | 1997.. | 670 136 | 224 354 | 248 172 | 197 610 | 625 746 | 203 631 | 236 068 | 186 047 | X | X | X | X | |
| 33329 | Other industrial machinery mfg | 1998.. | 6 074 943 | 1 366 394 | 2 055 377 | 2 653 172 | 6 294 702 | 1 422 109 | 2 321 209 | 2 551 383 | 2 | 3 | 3 | 2 | |
| | | 1997.. | 6 362 771 | 1 477 860 | 2 303 580 | 2 581 331 | 5 841 205 | 1 366 118 | 2 153 376 | 2 321 711 | X | X | X | X | |
| 333291 | Paper industry machinery mfg | 1998.. | 666 585 | 156 365 | 306 424 | 203 795 | 639 238 | 149 094 | 305 108 | 185 036 | 3 | 1 | 3 | 8 | |
| | | 1997.. | 642 561 | 148 719 | 305 296 | 188 546 | 590 286 | 135 502 | 264 891 | 189 893 | X | X | X | X | |
| 333292 | Textile machinery mfg | 1998.. | 375 222 | 107 349 | 95 945 | 171 928 | 378 162 | 113 208 | 99 420 | 165 534 | 2 | 3 | 3 | 3 | |
| | | 1997.. | 373 120 | 112 227 | 96 093 | 164 800 | 362 543 | 112 663 | 92 919 | 156 961 | X | X | X | X | |
| 333293 | Printing machinery & equipment mfg | 1998.. | 799 682 | 165 112 | 268 828 | 365 742 | 745 406 | 160 152 | 292 152 | 293 101 | 8 | 16 | 9 | 9 | |
| | | 1997.. | 839 529 | 197 028 | 307 970 | 334 531 | 793 628 | 192 061 | 294 892 | 306 675 | X | X | X | X | |
| 333294 | Food product machinery mfg | 1998.. | 536 415 | 191 089 | 126 312 | 219 013 | 539 423 | 184 468 | 133 291 | 221 664 | 2 | 2 | 5 | 5 | |
| | | 1997.. | 546 324 | 187 514 | 132 834 | 225 976 | 535 491 | 179 253 | 124 197 | 232 041 | X | X | X | X | |
| 333295 | Semiconductor machinery mfg | 1998.. | 2 150 378 | 319 128 | 763 334 | 1 067 916 | 2 342 555 | 342 850 | 941 047 | 1 058 658 | 3 | 4 | 4 | 3 | |
| | | 1997.. | 2 247 995 | 334 486 | 890 389 | 1 023 120 | 1 842 826 | 283 387 | 735 291 | 824 148 | X | X | X | X | |
| 333298 | All other industrial machinery mfg | 1998.. | 1 546 662 | 427 351 | 494 533 | 624 778 | 1 649 919 | 472 337 | 550 191 | 627 390 | 5 | 7 | 12 | 4 | |
| | | 1997.. | 1 713 242 | 497 886 | 570 998 | 644 358 | 1 716 431 | 463 252 | 641 186 | 611 993 | X | X | X | X | |
| 3333 | Commercial & service industry machinery mfg | 1998.. | 4 145 087 | 1 260 474 | 1 047 772 | 1 836 841 | 3 579 901 | 1 105 059 | 955 299 | 1 519 543 | 3 | 4 | 5 | 5 | |
| | | 1997.. | 3 991 059 | 1 163 291 | 1 167 604 | 1 660 164 | 3 835 138 | 1 134 088 | 1 256 510 | 1 444 540 | X | X | X | X | |
| 33331 | Commercial & service industry machinery mfg | 1998.. | 4 145 087 | 1 260 474 | 1 047 772 | 1 836 841 | 3 579 901 | 1 105 059 | 955 299 | 1 519 543 | 3 | 4 | 5 | 5 | |
| | | 1997.. | 3 991 059 | 1 163 291 | 1 167 604 | 1 660 164 | 3 835 138 | 1 134 088 | 1 256 510 | 1 444 540 | X | X | X | X | |
| 333311 | Automatic vending machine mfg | 1998.. | 183 872 | 79 622 | 26 832 | 77 419 | 166 998 | 71 513 | 23 239 | 72 245 | 4 | 3 | 4 | 6 | |
| | | 1997.. | 167 836 | 71 732 | 23 379 | 72 725 | 171 420 | 68 224 | 32 190 | 71 006 | X | X | X | X | |
| 333312 | Commercial laundry, drycleaning, & pressing machine mfg | 1998.. | 117 587 | 34 472 | 24 069 | 59 046 | 115 755 | 32 739 | 27 423 | 55 593 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 116 102 | 32 755 | 27 593 | 55 754 | 118 682 | 25 403 | 34 752 | 58 527 | X | X | X | X | |
| 333313 | Office machinery mfg | 1998.. | 705 064 | 227 366 | 207 696 | 270 002 | 642 547 | 215 290 | 201 006 | 226 251 | 1 | 1 | 1 | 1 | |
| | | 1997.. | 797 434 | 278 819 | 234 914 | 283 701 | 721 693 | 255 514 | 270 992 | 195 187 | X | X | X | X | |
| 333314 | Optical instrument & lens mfg | 1998.. | 689 748 | 180 604 | 198 262 | 310 882 | 520 066 | 135 556 | 213 038 | 171 473 | 19 | 22 | 22 | 27 | |
| | | 1997.. | 556 449 | 134 820 | 234 693 | 186 936 | 500 161 | 118 465 | 228 540 | 153 156 | X | X | X | X | |
| 333315 | Photographic & photocopying equipment mfg | 1998.. | 926 684 | 264 668 | 231 765 | 430 251 | 846 122 | 240 968 | 212 024 | 393 130 | 1 | 1 | 2 | 1 | |
| | | 1997.. | 830 097 | 236 516 | 202 057 | 391 524 | 825 149 | 270 290 | 207 500 | 347 359 | X | X | X | X | |
| 333319 | Other commercial & service industry machinery mfg | 1998.. | 1 522 132 | 473 742 | 359 150 | 689 240 | 1 288 413 | 408 993 | 278 569 | 600 851 | 2 | 4 | 5 | 3 | |
| | | 1997.. | 1 523 141 | 408 649 | 444 968 | 669 524 | 1 498 033 | 396 192 | 482 536 | 619 305 | X | X | X | X | |
| 3334 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 1998.. | 3 638 846 | 1 328 107 | 786 147 | 1 524 593 | 3 544 568 | 1 320 933 | 790 357 | 1 433 277 | 2 | 3 | 2 | 2 | |
| | | 1997.. | 3 629 730 | 1 332 124 | 803 965 | 1 493 641 | 3 693 074 | 1 475 812 | 822 970 | 1 394 292 | X | X | X | X | |
| 33341 | Ventilation, heating, AC, & commercial refrigeration equip mfg | 1998.. | 3 638 846 | 1 328 107 | 786 147 | 1 524 593 | 3 544 568 | 1 320 933 | 790 357 | 1 433 277 | 2 | 3 | 2 | 2 | |
| | | 1997.. | 3 629 730 | 1 332 124 | 803 965 | 1 493 641 | 3 693 074 | 1 475 812 | 822 970 | 1 394 292 | X | X | X | X | |
| 333411 | Air purification equipment mfg | 1998.. | 263 574 | 75 127 | 62 214 | 126 233 | 240 182 | 63 567 | 61 812 | 114 803 | 7 | 12 | 8 | 7 | |
| | | 1997.. | 253 689 | 64 931 | 66 522 | 122 236 | 254 544 | 66 110 | 76 383 | 112 051 | X | X | X | X | |

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | |
|------------|----------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|----|----|------|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | A | B | C | D |
| 333 | Machinery mfg—Con. | | | | | | | | | | | | |
| 33344 | Ventilation, heating, AC, & commercial refrigeration equip mfg—Con. | | | | | | | | | | | | |
| 33341 | Ventilation, heating, AC, & commercial refrigeration equip mfg—Con. | | | | | | | | | | | | |
| 333412 | Industrial & commercial fan & blower mfg | 1998.. | 215 213 | 26 907 | 64 576 | 123 729 | 205 685 | 36 340 | 66 819 | 102 525 | 3 | 40 | 19 X |
| 333412 | Industrial & commercial fan & blower mfg | 1997.. | 219 364 | 44 062 | 51 934 | 123 368 | 209 971 | 39 003 | 58 625 | 112 343 | X | X | 15 X |
| 333414 | Heating equipment (except warm air furnaces) mfg | 1998.. | 528 756 | 167 856 | 107 035 | 253 866 | 568 030 | 204 961 | 105 386 | 257 683 | 11 | 24 | 7 X |
| 333414 | Heating equipment (except warm air furnaces) mfg | 1997.. | 572 320 | 205 889 | 108 207 | 258 224 | 530 964 | 201 928 | 101 387 | 227 649 | X | X | 5 X |
| 333415 | AC & warm air heating & commercial/industrial refrig equip mfg | 1998.. | 2 631 303 | 1 058 217 | 552 321 | 1 020 765 | 2 530 671 | 1 016 065 | 556 341 | 958 266 | 1 | 1 | 1 X |
| 333415 | AC & warm air heating & commercial/industrial refrig equip mfg | 1997.. | 2 584 357 | 1 017 242 | 577 302 | 989 813 | 2 697 595 | 1 168 771 | 586 575 | 942 249 | X | X | 2 X |
| 3335 | Metalworking machinery mfg | 1998.. | 5 639 101 | 1 588 349 | 2 948 317 | 1 102 435 | 5 629 701 | 1 363 701 | 3 250 833 | 1 015 167 | 1 | 2 | 2 X |
| 33351 | Metalworking machinery mfg | 1997.. | 5 499 419 | 1 406 409 | 3 055 629 | 1 037 381 | 5 386 707 | 1 227 153 | 3 021 218 | 1 015 167 | 1 | 2 | 2 X |
| 333511 | Industrial mold mfg | 1998.. | 5 639 101 | 1 588 349 | 2 948 317 | 1 102 435 | 5 629 701 | 1 363 701 | 3 250 833 | 1 015 167 | 1 | 2 | 2 X |
| 333511 | Industrial mold mfg | 1997.. | 5 499 419 | 1 406 409 | 3 055 629 | 1 037 381 | 5 386 707 | 1 227 153 | 3 021 218 | 1 015 167 | 1 | 2 | 2 X |
| 333512 | Machine tool (metal cutting types) mfg | 1998.. | 1 436 762 | 515 195 | 675 238 | 246 329 | 1 473 279 | 455 470 | 764 950 | 252 859 | 3 | 4 | 5 X |
| 333512 | Machine tool (metal cutting types) mfg | 1997.. | 1 518 720 | 467 725 | 784 112 | 266 883 | 1 446 501 | 350 457 | 750 286 | 345 758 | X | X | 3 X |
| 333513 | Machine tool (metal forming types) mfg | 1998.. | 641 364 | 142 988 | 367 724 | 130 652 | 522 093 | 107 400 | 318 380 | 96 313 | 3 | 5 | 3 X |
| 333513 | Machine tool (metal forming types) mfg | 1997.. | 545 729 | 125 473 | 313 843 | 106 413 | 538 533 | 117 158 | 326 067 | 95 308 | X | X | 3 X |
| 333514 | Special die & tool, die set, jig, & fixture mfg | 1998.. | 1 107 292 | 216 928 | 689 079 | 201 285 | 1 104 435 | 184 670 | 728 086 | 191 679 | 2 | 4 | 2 X |
| 333514 | Special die & tool, die set, jig, & fixture mfg | 1997.. | 1 115 444 | 192 504 | 733 837 | 189 103 | 1 073 306 | 184 189 | 660 133 | 228 984 | X | X | 6 X |
| 333515 | Cutting tool & machine tool accessory mfg | 1998.. | 989 071 | 472 418 | 301 408 | 215 245 | 902 573 | 399 982 | 293 072 | 209 518 | 2 | 3 | 2 X |
| 333515 | Cutting tool & machine tool accessory mfg | 1997.. | 905 317 | 403 701 | 292 105 | 209 511 | 880 103 | 374 958 | 280 278 | 224 867 | X | X | 2 X |
| 333516 | Rolling mill machinery & equipment mfg | 1998.. | 164 408 | 12 965 | 87 504 | 63 940 | 177 420 | 17 403 | 122 286 | 37 731 | 4 | 11 | 8 X |
| 333516 | Rolling mill machinery & equipment mfg | 1997.. | 178 736 | 17 657 | 121 716 | 39 363 | 167 611 | 17 418 | 134 993 | 15 200 | X | X | 3 X |
| 333518 | Other metalworking machinery mfg | 1998.. | 706 647 | 110 147 | 458 722 | 137 778 | 873 812 | 121 951 | 633 551 | 118 310 | 4 | 6 | 6 X |
| 333518 | Other metalworking machinery mfg | 1997.. | 665 981 | 119 745 | 416 502 | 129 734 | 703 931 | 102 262 | 482 665 | 119 004 | X | X | 6 X |
| 3336 | Engine, turbine, & power transmission equipment mfg | 1998.. | 4 799 794 | 1 174 279 | 2 359 530 | 1 265 985 | 4 496 800 | 1 171 070 | 2 226 468 | 1 099 262 | 1 | 1 | 1 X |
| 33361 | Engine, turbine, & power transmission equipment mfg | 1997.. | 4 447 910 | 1 149 876 | 2 221 869 | 1 076 165 | 4 774 335 | 1 372 672 | 2 250 831 | 1 150 832 | X | X | 3 X |
| 333611 | Turbine & turbine generator set unit mfg | 1998.. | 4 799 794 | 1 174 279 | 2 359 530 | 1 265 985 | 4 496 800 | 1 171 070 | 2 226 468 | 1 099 262 | 1 | 1 | 1 X |
| 333611 | Turbine & turbine generator set unit mfg | 1997.. | 4 447 910 | 1 149 876 | 2 221 869 | 1 076 165 | 4 774 335 | 1 372 672 | 2 250 831 | 1 150 832 | X | X | 3 X |
| 333612 | Speed changer, industrial high-speed drive, & gear mfg | 1998.. | 539 776 | 223 333 | 172 772 | 143 671 | 498 800 | 207 149 | 164 168 | 127 483 | 2 | 2 | 5 X |
| 333612 | Speed changer, industrial high-speed drive, & gear mfg | 1997.. | 470 993 | 208 882 | 149 262 | 112 849 | 459 562 | 199 424 | 152 317 | 107 821 | X | X | 6 X |
| 333613 | Mechanical power transmission equipment mfg | 1998.. | 751 208 | 351 595 | 235 488 | 164 125 | 730 502 | 341 839 | 230 392 | 158 271 | 2 | 1 | 2 X |
| 333613 | Mechanical power transmission equipment mfg | 1997.. | 745 613 | 337 454 | 238 134 | 170 025 | 710 606 | 324 025 | 229 540 | 157 041 | X | X | 8 X |
| 333618 | Other engine equipment mfg | 1998.. | 1 864 396 | 458 595 | 715 818 | 689 983 | 1 630 656 | 446 028 | 683 981 | 500 647 | 2 | 2 | 1 X |
| 333618 | Other engine equipment mfg | 1997.. | 1 599 997 | 427 425 | 689 125 | 483 447 | 1 766 301 | 539 906 | 710 375 | 516 020 | X | X | 4 X |
| 3339 | Other general-purpose machinery mfg | 1998.. | 10 764 710 | 3 438 905 | 3 435 185 | 3 890 619 | 10 520 869 | 3 223 134 | 3 517 874 | 3 779 860 | 1 | 3 | 2 X |
| 33391 | Pump & compressor mfg | 1998.. | 10 593 201 | 3 308 328 | 3 538 055 | 3 746 818 | 10 222 490 | 3 119 122 | 3 491 636 | 3 611 732 | X | X | 2 X |
| 33391 | Pump & compressor mfg | 1997.. | 2 761 339 | 1 014 945 | 839 432 | 906 962 | 2 804 637 | 1 037 229 | 838 633 | 928 775 | 3 | 8 | 2 X |
| 333911 | Pump & pumping equipment mfg | 1998.. | 2 749 177 | 1 027 292 | 841 082 | 880 803 | 2 650 636 | 1 012 653 | 777 331 | 860 652 | X | X | 7 X |
| 333912 | Air & gas compressor mfg | 1998.. | 1 492 385 | 596 157 | 412 401 | 483 802 | 1 496 786 | 549 604 | 380 502 | 566 679 | 3 | 3 | 10 X |
| 333912 | Air & gas compressor mfg | 1997.. | 1 444 362 | 541 920 | 379 936 | 522 506 | 1 402 154 | 541 949 | 367 530 | 492 675 | X | X | 10 X |
| 333913 | Measuring & dispensing pump mfg | 1998.. | 1 112 218 | 373 121 | 386 132 | 352 964 | 1 139 476 | 434 198 | 412 037 | 293 240 | 5 | 21 | 4 X |
| 333913 | Measuring & dispensing pump mfg | 1997.. | 1 133 865 | 431 192 | 414 482 | 288 191 | 1 072 643 | 414 797 | 359 337 | 298 509 | X | X | 11 X |
| 33392 | Material handling equipment mfg | 1998.. | 156 736 | 45 667 | 40 899 | 70 170 | 168 376 | 53 426 | 46 094 | 68 856 | 2 | 8 | 1 X |
| 33392 | Material handling equipment mfg | 1997.. | 170 950 | 54 180 | 46 664 | 70 106 | 175 839 | 55 907 | 50 464 | 69 468 | X | X | 4 X |
| 333921 | Elevator & moving stairway mfg | 1998.. | 2 380 709 | 653 388 | 612 328 | 1 114 992 | 2 231 884 | 559 755 | 647 145 | 1 024 984 | 3 | 5 | 10 X |
| 333921 | Elevator & moving stairway mfg | 1997.. | 2 252 464 | 582 244 | 645 982 | 1 024 238 | 2 184 553 | 494 304 | 648 681 | 1 041 568 | X | X | 2 X |
| 333922 | Conveyor & conveying equipment mfg | 1998.. | 199 979 | 35 053 | 86 329 | 78 597 | 201 022 | 36 115 | 86 799 | 78 108 | 3 | 13 | 7 X |
| 333922 | Conveyor & conveying equipment mfg | 1997.. | 201 583 | 35 914 | 85 073 | 80 596 | 185 465 | 36 812 | 77 920 | 70 733 | X | X | 8 X |
| 333923 | Overhead traveling crane, hoist, & monorail system mfg | 1998.. | 667 402 | 205 013 | 154 250 | 308 139 | 643 571 | 152 622 | 221 116 | 269 833 | 10 | 13 | 37 X |
| 333923 | Overhead traveling crane, hoist, & monorail system mfg | 1997.. | 696 594 | 163 038 | 232 797 | 300 759 | 661 974 | 152 726 | 234 005 | 275 243 | X | X | 3 X |
| 333924 | Industrial truck, tractor, trailer, & stacker machinery mfg | 1998.. | 890 414 | 242 650 | 167 892 | 479 872 | 851 096 | 222 574 | 168 999 | 459 522 | 3 | 3 | 4 X |
| 333924 | Industrial truck, tractor, trailer, & stacker machinery mfg | 1997.. | 792 992 | 215 849 | 168 805 | 408 338 | 803 877 | 179 426 | 161 125 | 463 326 | X | X | 4 X |
| 33399 | All other general-purpose machinery mfg | 1998.. | 5 622 663 | 1 770 572 | 1 983 425 | 1 868 665 | 5 484 347 | 1 626 150 | 2 032 096 | 1 826 101 | 1 | 2 | 1 X |
| 33399 | All other general-purpose machinery mfg | 1997.. | 5 591 560 | 1 698 792 | 2 050 991 | 1 841 777 | 5 387 301 | 1 612 165 | 2 065 624 | 1 709 512 | X | X | 1 X |
| 333991 | Power-driven handtool mfg | 1998.. | 484 360 | 285 157 | 101 431 | 97 773 | 424 978 | 238 274 | 100 536 | 86 167 | 1 | 1 | 1 X |
| 333991 | Power-driven handtool mfg | 1997.. | 425 780 | 237 823 | 99 267 | 88 690 | 414 395 | 202 271 | 100 314 | 111 610 | X | X | 1 X |

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|-----------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|---|----|----|---|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | A | B | C | D | E | F | G | H | A | B | C | D | |
| 333 | Machinery mfg—Con. | | | | | | | | | | | | | |
| 33339 | Other general-purpose machinery mfg—Con. | | | | | | | | | | | | | |
| 333399 | All other general-purpose machinery mfg—Con. | | | | | | | | | | | | | |
| 3333992 | Welding & soldering equipment mfg..... | 1998.. | 731 148 | 265 048 | 252 902 | 213 197 | 777 819 | 265 769 | 297 456 | 214 595 | 2 | 1 | 7 | 1 |
| | | 1997.. | 810 035 | 283 840 | 301 482 | 224 713 | 759 359 | 244 048 | 305 886 | 209 425 | X | X | X | X |
| 3333993 | Packaging machinery mfg | 1998.. | 1 025 496 | 302 429 | 335 346 | 387 720 | 1 062 327 | 296 932 | 377 111 | 388 284 | 3 | 5 | 4 | 3 |
| | | 1997.. | 1 066 405 | 297 236 | 374 366 | 394 803 | 1 103 240 | 315 495 | 433 826 | 353 919 | X | X | X | X |
| 3333994 | Industrial process furnace & oven mfg..... | 1998.. | 458 336 | 58 829 | 192 048 | 207 459 | 417 657 | 50 435 | 176 165 | 191 057 | 5 | 4 | 8 | 5 |
| | | 1997.. | 478 888 | 64 405 | 196 932 | 217 551 | 450 902 | 50 189 | 201 219 | 199 494 | X | X | X | X |
| 3333995 | Fluid power cylinder & actuator mfg | 1998.. | 761 287 | 177 615 | 370 213 | 213 459 | 682 676 | 134 471 | 328 477 | 219 728 | 4 | 13 | 1 | 5 |
| | | 1997.. | 684 981 | 134 534 | 329 234 | 221 213 | 648 476 | 143 618 | 308 971 | 195 887 | X | X | X | X |
| 3333996 | Fluid power pump & motor mfg | 1998.. | 497 443 | 171 883 | 190 728 | 134 832 | 486 370 | 164 585 | 194 010 | 127 775 | 1 | 1 | 1 | 1 |
| | | 1997.. | 483 196 | 164 237 | 190 080 | 128 879 | 462 874 | 146 255 | 209 583 | 107 036 | X | X | X | X |
| 3333997 | Scale & balance (except laboratory) mfg | 1998.. | 98 491 | 24 254 | 33 624 | 40 612 | 102 577 | 31 177 | 29 044 | 42 355 | 5 | 8 | 18 | 5 |
| | | 1997.. | 105 044 | 29 132 | 31 332 | 44 580 | 115 423 | 32 366 | 34 928 | 48 129 | X | X | X | X |
| 3333999 | All other miscellaneous general-purpose machinery mfg | 1998.. | 1 566 103 | 485 356 | 507 134 | 573 613 | 1 529 944 | 444 506 | 529 297 | 556 140 | 2 | 2 | 2 | 3 |
| | | 1997.. | 1 537 231 | 487 585 | 528 298 | 521 348 | 1 432 632 | 477 923 | 470 897 | 483 812 | X | X | X | X |
| 334 | Computer & electronic product mfg | 1998.. | 51 530 567 | 13 180 950 | 19 404 397 | 18 945 220 | 52 538 570 | 12 082 229 | 20 489 924 | 19 966 417 | 1 | 1 | 1 | 1 |
| | | 1997.. | 52 414 394 | 12 355 368 | 20 162 010 | 19 897 016 | 49 949 698 | 11 379 757 | 20 506 496 | 18 063 445 | X | X | X | X |
| 3341 | Computer & peripheral equipment mfg..... | 1998.. | 8 721 285 | 2 430 548 | 2 666 511 | 3 624 227 | 10 010 860 | 2 614 235 | 3 106 791 | 4 289 834 | 3 | 6 | 1 | 3 |
| | | 1997.. | 10 051 848 | 2 762 830 | 3 115 422 | 4 173 596 | 9 572 914 | 2 617 711 | 3 171 083 | 3 784 120 | X | X | X | X |
| 33411 | Computer & peripheral equipment mfg..... | 1998.. | 8 721 285 | 2 430 548 | 2 666 511 | 3 624 227 | 10 010 860 | 2 614 235 | 3 106 791 | 4 289 834 | 3 | 6 | 1 | 3 |
| | | 1997.. | 10 051 848 | 2 762 830 | 3 115 422 | 4 173 596 | 9 572 914 | 2 617 711 | 3 171 083 | 3 784 120 | X | X | X | X |
| 334111 | Electronic computer mfg ... | 1998.. | 4 373 913 | 1 063 100 | 1 313 292 | 1 997 521 | 5 479 236 | 1 351 676 | 1 578 391 | 2 549 169 | 1 | 1 | 1 | 1 |
| | | 1997.. | 5 448 864 | 1 449 189 | 1 612 920 | 2 386 755 | 5 481 446 | 1 601 084 | 1 628 795 | 2 251 567 | X | X | X | X |
| 334112 | Computer storage device mfg | 1998.. | 1 165 288 | 253 461 | 550 601 | 361 225 | 1 394 450 | 321 563 | 559 818 | 513 069 | 1 | 1 | 1 | 1 |
| | | 1997.. | 1 440 661 | 339 691 | 558 937 | 542 033 | 1 314 494 | 267 498 | 587 808 | 459 188 | X | X | X | X |
| 334113 | Computer terminal mfg | 1998.. | 188 945 | 58 602 | 42 813 | 87 530 | 179 875 | 58 448 | 38 413 | 83 014 | 1 | 2 | 2 | 3 |
| | | 1997.. | 199 589 | 62 393 | 44 244 | 92 952 | 205 914 | 69 483 | 50 102 | 86 329 | X | X | X | X |
| 334119 | Other computer peripheral equipment mfg..... | 1998.. | 2 993 140 | 1 055 385 | 759 805 | 1 177 950 | 2 957 299 | 882 547 | 930 169 | 1 144 583 | 8 | 14 | 3 | 8 |
| | | 1997.. | 2 962 734 | 911 557 | 899 321 | 1 151 856 | 2 571 060 | 679 646 | 904 378 | 987 036 | X | X | X | X |
| 3342 | Communications equipment mfg | 1998.. | 11 193 490 | 3 509 474 | 3 512 346 | 4 171 671 | 10 862 628 | 2 805 153 | 3 274 201 | 4 783 274 | 1 | 1 | 1 | 1 |
| | | 1997.. | 11 253 347 | 3 171 172 | 3 292 763 | 4 789 412 | 10 185 844 | 2 680 061 | 3 327 494 | 4 178 289 | X | X | X | X |
| 33421 | Telephone apparatus mfg | 1998.. | 5 010 802 | 1 696 516 | 1 552 555 | 1 761 730 | 4 307 844 | 1 312 269 | 1 218 461 | 1 777 115 | 1 | 1 | 1 | 1 |
| | | 1997.. | 4 467 741 | 1 365 398 | 1 251 786 | 1 850 557 | 4 137 782 | 1 102 504 | 1 279 406 | 1 755 872 | X | X | X | X |
| 334210 | Telephone apparatus mfg | 1998.. | 5 010 802 | 1 696 516 | 1 552 555 | 1 761 730 | 4 307 844 | 1 312 269 | 1 218 461 | 1 777 115 | 1 | 1 | 1 | 1 |
| | | 1997.. | 4 467 741 | 1 365 398 | 1 251 786 | 1 850 557 | 4 137 782 | 1 102 504 | 1 279 406 | 1 755 872 | X | X | X | X |
| 33422 | Radio & TV broadcasting & wireless communications equipment mfg | 1998.. | 5 565 145 | 1 630 650 | 1 858 154 | 2 076 341 | 5 915 589 | 1 306 359 | 1 942 514 | 2 666 716 | 1 | 1 | 1 | 1 |
| | | 1997.. | 6 111 426 | 1 610 290 | 1 917 461 | 2 583 675 | 5 430 943 | 1 360 703 | 1 941 820 | 2 128 420 | X | X | X | X |
| 334220 | Radio & TV broadcasting & wireless communications equipment mfg | 1998.. | 5 565 145 | 1 630 650 | 1 858 154 | 2 076 341 | 5 915 589 | 1 306 359 | 1 942 514 | 2 666 716 | 1 | 1 | 1 | 1 |
| | | 1997.. | 6 111 426 | 1 610 290 | 1 917 461 | 2 583 675 | 5 430 943 | 1 360 703 | 1 941 820 | 2 128 420 | X | X | X | X |
| 33429 | Other communications equipment mfg | 1998.. | 617 543 | 182 308 | 101 636 | 333 599 | 639 195 | 186 526 | 113 226 | 339 443 | 2 | 3 | 4 | 2 |
| | | 1997.. | 674 180 | 195 484 | 123 516 | 355 180 | 617 119 | 216 854 | 106 268 | 293 997 | X | X | X | X |
| 334290 | Other communications equipment mfg | 1998.. | 617 543 | 182 308 | 101 636 | 333 599 | 639 195 | 186 526 | 113 226 | 339 443 | 2 | 3 | 4 | 2 |
| | | 1997.. | 674 180 | 195 484 | 123 516 | 355 180 | 617 119 | 216 854 | 106 268 | 293 997 | X | X | X | X |
| 3343 | Audio & video equipment mfg | 1998.. | 848 840 | 262 302 | 134 898 | 451 639 | 809 053 | 247 430 | 154 123 | 407 500 | 3 | 6 | 10 | 4 |
| | | 1997.. | 807 816 | 252 992 | 158 050 | 396 774 | 912 801 | 271 562 | 165 945 | 475 294 | X | X | X | X |
| 33431 | Audio & video equipment mfg | 1998.. | 848 840 | 262 302 | 134 898 | 451 639 | 809 053 | 247 430 | 154 123 | 407 500 | 3 | 6 | 10 | 4 |
| | | 1997.. | 807 816 | 252 992 | 158 050 | 396 774 | 912 801 | 271 562 | 165 945 | 475 294 | X | X | X | X |
| 334310 | Audio & video equipment mfg | 1998.. | 848 840 | 262 302 | 134 898 | 451 639 | 809 053 | 247 430 | 154 123 | 407 500 | 3 | 6 | 10 | 4 |
| | | 1997.. | 807 816 | 252 992 | 158 050 | 396 774 | 912 801 | 271 562 | 165 945 | 475 294 | X | X | X | X |
| 3344 | Semiconductor & other electronic component mfg | 1998.. | 13 966 186 | 3 295 226 | 5 885 767 | 4 785 193 | 14 390 418 | 2 992 928 | 6 501 860 | 4 895 630 | 1 | 1 | 1 | 1 |
| | | 1997.. | 14 005 810 | 2 803 290 | 6 233 356 | 4 969 164 | 13 157 953 | 2 592 058 | 5 999 298 | 4 566 597 | X | X | X | X |
| 33441 | Semiconductor & other electronic component mfg | 1998.. | 13 966 186 | 3 295 226 | 5 885 767 | 4 785 193 | 14 390 418 | 2 992 928 | 6 501 860 | 4 895 630 | 1 | 1 | 1 | 1 |
| | | 1997.. | 14 005 810 | 2 803 290 | 6 233 356 | 4 969 164 | 13 157 953 | 2 592 058 | 5 999 298 | 4 566 597 | X | X | X | X |
| 334411 | Electron tube mfg | 1998.. | 531 547 | 195 445 | 154 434 | 181 668 | 550 169 | 182 798 | 177 075 | 190 296 | 1 | 1 | 1 | 1 |
| | | 1997.. | 560 854 | 180 081 | 187 541 | 193 232 | 494 999 | 161 001 | 152 773 | 181 225 | X | X | X | X |
| 334412 | Bare printed circuit board mfg | 1998.. | 830 161 | 178 474 | 320 512 | 331 175 | 750 438 | 123 216 | 318 511 | 308 711 | 2 | 1 | 2 | 4 |
| | | 1997.. | 765 963 | 147 900 | 309 375 | 308 688 | 716 492 | 133 180 | 305 389 | 277 923 | X | X | X | X |
| 334413 | Semiconductor & related device mfg | 1998.. | 6 191 361 | 1 528 663 | 3 543 166 | 1 119 531 | 6 299 694 | 1 522 212 | 3 523 585 | 1 253 897 | 1 | 2 | 1 | 2 |
| | | 1997.. | 5 759 959 | 1 323 499 | 3 274 458 | 1 162 002 | 4 933 274 | 1 087 420 | 2 799 510 | 1 046 344 | X | X | X | X |
| 334414 | Electronic capacitor mfg | 1998.. | 385 602 | 121 803 | 98 200 | 165 600 | 377 842 | 118 000 | 101 949 | 157 894 | 1 | 3 | 3 | 1 |
| | | 1997.. | 423 351 | 141 404 | 108 288 | 173 659 | 359 831 | 104 350 | 103 059 | 152 422 | X | X | X | X |
| 334415 | Electronic resistor mfg | 1998.. | 184 522 | 72 274 | 53 141 | 59 107 | 181 028 | 71 287 | 55 227 | 54 514 | 3 | 5 | 3 | 3 |
| | | 1997.. | 185 580 | 71 842 | 56 094 | 57 644 | 204 246 | 86 080 | 59 646 | 58 520 | X | X | X | X |
| 334416 | Electronic coil, transformer, & other inductor mfg | 1998.. | 211 322 | 51 145 | 45 083 | 115 094 | 194 031 | 48 733 | 41 679 | 103 618 | 2 | 6 | 4 | 2 |
| | | 1997.. | 187 389 | 47 620 | 39 337 | 100 432 | 187 206 | 45 247 | 39 157 | 102 802 | X | X | X | X |
| 334417 | Electronic connector mfg | 1998.. | 725 299 | 199 518 | 263 716 | 262 064 | 705 467 | 194 181 | 264 498 | 246 788 | 1 | 3 | 2 | 2 |
| | | 1997.. | 734 837 | 196 752 | 292 268 | 245 817 | 727 229 | 206 358 | 277 044 | 243 827 | X | X | X | X |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|-------------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|---|----|----|---|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | A | B | C | D | E | F | G | H | A | B | C | D | |
| 334 | Computer & electronic product mfg—Con. | | | | | | | | | | | | | |
| 3344 | Semiconductor & other electronic component mfg—Con. | | | | | | | | | | | | | |
| 33441 | Semiconductor & other electronic component mfg—Con. | | | | | | | | | | | | | |
| 334418 | Printed circuit assembly (electronic assembly) mfg | 1998.. | 3 270 080 | 635 298 | 925 760 | 1 709 023 | 3 698 878 | 439 059 | 1 527 566 | 1 732 253 | 2 | 2 | 3 | 3 |
| 334419 | Other electronic component mfg | 1997.. | 3 675 824 | 363 591 | 1 497 418 | 1 814 815 | 4 001 349 | 470 648 | 1 766 515 | 1 764 186 | X | X | X | X |
| 3345 | Navigational, measuring, medical, & control instruments mfg | 1998.. | 15 915 257 | 3 391 410 | 7 077 052 | 5 446 796 | 15 584 617 | 3 138 273 | 7 316 164 | 5 130 180 | 1 | 2 | 1 | 1 |
| 33451 | Navigational, measuring, medical, & control instruments mfg | 1997.. | 15 452 929 | 3 091 800 | 7 237 791 | 5 123 338 | 15 321 608 | 2 951 285 | 7 721 499 | 4 648 824 | X | X | X | X |
| 334510 | Electromedical & electrotherapeutic apparatus mfg | 1998.. | 15 915 257 | 3 391 410 | 7 077 052 | 5 446 796 | 15 584 617 | 3 138 273 | 7 316 164 | 5 130 180 | 1 | 2 | 1 | 1 |
| 334511 | Search, detection, navigation, & guidance instrument mfg | 1998.. | 2 186 983 | 859 633 | 477 119 | 850 231 | 2 036 707 | 796 024 | 424 031 | 816 652 | 4 | 9 | 7 | 2 |
| 334512 | Automatic environmental control mfg | 1998.. | 2 072 739 | 797 660 | 432 836 | 842 243 | 1 996 543 | 770 210 | 425 612 | 800 721 | X | X | X | X |
| 334513 | Industrial process control instrument mfg | 1998.. | 6 146 076 | 401 681 | 4 464 514 | 1 279 882 | 6 137 251 | 360 875 | 4 646 179 | 1 130 197 | 1 | 2 | 1 | 1 |
| 334514 | Totalizing fluid meter & counting device mfg | 1998.. | 6 137 199 | 371 545 | 4 655 272 | 1 110 382 | 6 464 514 | 328 473 | 5 152 773 | 983 268 | X | X | X | X |
| 334515 | Electricity measuring & testing instrument mfg | 1998.. | 434 441 | 127 255 | 168 967 | 138 219 | 412 340 | 110 622 | 162 746 | 138 972 | 5 | 3 | 5 | 7 |
| 334516 | Irradiation apparatus mfg | 1998.. | 390 108 | 104 403 | 154 692 | 131 013 | 373 922 | 133 207 | 137 468 | 103 247 | X | X | X | X |
| 334517 | Watch, clock, & part mfg | 1998.. | 1 242 592 | 340 024 | 314 838 | 587 730 | 1 251 950 | 280 868 | 357 590 | 613 492 | 2 | 3 | 3 | 2 |
| 334518 | Other measuring & controlling device mfg | 1997.. | 1 280 901 | 276 965 | 343 063 | 660 873 | 1 262 431 | 300 102 | 340 406 | 621 923 | X | X | X | X |
| 334519 | Mfg. & reproducing magnetic & optical media | 1998.. | 351 871 | 69 763 | 139 663 | 142 445 | 371 443 | 68 424 | 139 795 | 163 224 | 1 | 1 | 1 | 1 |
| 3346 | Mfg. & reproducing magnetic & optical media | 1997.. | 343 882 | 69 173 | 120 769 | 153 940 | 327 718 | 64 842 | 126 710 | 136 166 | X | X | X | X |
| 33461 | Prerecorded CD (except software), tape, & record reproducing | 1998.. | 2 476 057 | 649 220 | 771 617 | 1 055 220 | 2 445 993 | 638 793 | 820 499 | 986 701 | 1 | 1 | 1 | 2 |
| 334611 | Software reproducing | 1998.. | 2 291 189 | 564 339 | 770 982 | 955 868 | 2 096 926 | 463 864 | 768 462 | 864 600 | X | X | X | X |
| 334612 | Magnetic & optical recording media mfg | 1998.. | 1 041 748 | 335 017 | 190 034 | 516 696 | 1 042 745 | 338 980 | 203 496 | 500 269 | 1 | 1 | 2 | 1 |
| 334613 | Magnetic & optical recording media mfg | 1997.. | 1 061 898 | 367 978 | 203 921 | 489 999 | 1 036 825 | 390 838 | 203 683 | 442 304 | X | X | X | X |
| 334614 | Residential electric lighting fixture mfg | 1998.. | 746 722 | 240 376 | 190 076 | 316 270 | 685 064 | 209 867 | 200 802 | 274 396 | 1 | 2 | 2 | 2 |
| 334615 | Commercial/industrial/institutional electric lighting fixture mfg | 1997.. | 684 472 | 212 248 | 199 759 | 272 465 | 637 242 | 202 003 | 198 930 | 236 309 | X | X | X | X |
| 334616 | Other lighting equipment mfg | 1998.. | 197 320 | 93 434 | 63 320 | 40 567 | 191 094 | 93 272 | 60 646 | 37 176 | 2 | 4 | 1 | X |
| 334617 | Household appliance mfg | 1997.. | 181 429 | 83 805 | 59 522 | 38 102 | 170 870 | 84 264 | 49 432 | 37 174 | X | X | X | X |
| 334618 | Other electronic product mfg—Con. | 1998.. | 1 091 446 | 275 006 | 296 905 | 519 535 | 1 010 030 | 240 549 | 300 381 | 469 101 | 1 | 4 | 2 | 2 |
| 334619 | Other electronic product mfg—Con. | 1997.. | 1 009 112 | 243 684 | 296 975 | 468 453 | 954 617 | 213 482 | 318 023 | 423 112 | X | X | X | X |
| 3347 | Residential electric lighting fixture mfg | 1998.. | 885 508 | 291 991 | 127 823 | 465 695 | 880 994 | 284 210 | 136 784 | 459 999 | 2 | 4 | 1 | 1 |
| 33471 | Residential electric lighting fixture mfg | 1997.. | 842 644 | 273 284 | 124 628 | 444 732 | 798 578 | 267 080 | 121 177 | 410 321 | X | X | X | X |
| 334711 | Commercial/industrial/institutional electric lighting fixture mfg | 1998.. | 885 508 | 291 991 | 127 823 | 465 695 | 880 994 | 284 210 | 136 784 | 459 999 | 2 | 4 | 1 | 1 |
| 334712 | Commercial/industrial/institutional electric lighting fixture mfg | 1997.. | 842 644 | 273 284 | 124 628 | 444 732 | 798 578 | 267 080 | 121 177 | 410 321 | X | X | X | X |
| 334713 | Residential electric lighting fixture mfg | 1998.. | 168 568 | 67 935 | 24 182 | 76 451 | 154 985 | 56 428 | 24 851 | 73 706 | 8 | 17 | 4 | 4 |
| 334714 | Residential electric lighting fixture mfg | 1997.. | 61 172 | 20 132 | 7 725 | 33 315 | 65 073 | 20 874 | 7 993 | 36 206 | X | X | X | X |
| 334715 | Commercial/industrial/institutional electric lighting fixture mfg | 1998.. | 213 199 | 79 341 | 21 619 | 112 239 | 206 698 | 80 800 | 21 424 | 104 474 | 2 | 3 | 2 | 1 |
| 334716 | Commercial/industrial/institutional electric lighting fixture mfg | 1997.. | 203 752 | 76 669 | 21 173 | 105 910 | 225 826 | 87 865 | 28 786 | 109 175 | X | X | X | X |
| 334717 | Commercial/industrial/institutional electric lighting fixture mfg | 1998.. | 503 741 | 144 714 | 82 021 | 277 006 | 519 311 | 146 982 | 90 509 | 281 819 | 1 | 1 | 1 | 1 |
| 334718 | Commercial/industrial/institutional electric lighting fixture mfg | 1997.. | 577 720 | 176 483 | 95 730 | 305 507 | 507 679 | 158 341 | 84 398 | 264 940 | X | X | X | X |
| 3348 | Electrical equipment, appliance, & component mfg | 1998.. | 13 832 360 | 5 084 556 | 3 353 158 | 5 394 647 | 13 664 585 | 4 889 333 | 3 469 154 | 5 306 099 | 1 | 1 | 2 | 2 |
| 33481 | Electrical equipment, appliance, & component mfg | 1997.. | 13 592 424 | 4 868 337 | 3 486 888 | 5 237 199 | 13 087 708 | 4 808 396 | 3 458 976 | 4 820 336 | X | X | X | X |
| 334811 | Electric lighting equipment mfg | 1998.. | 1 524 714 | 550 117 | 202 290 | 772 307 | 1 510 832 | 578 184 | 198 865 | 733 783 | 2 | 2 | 5 | 2 |
| 334812 | Electric lamp bulb & part mfg | 1998.. | 1 524 330 | 585 930 | 198 920 | 739 480 | 1 451 511 | 575 745 | 187 585 | 688 181 | X | X | X | X |
| 334813 | Electric lamp bulb & part mfg | 1997.. | 225 563 | 100 029 | 28 504 | 97 030 | 250 366 | 124 181 | 25 492 | 100 693 | 1 | 1 | 1 | 1 |
| 334814 | Electric lamp bulb & part mfg | 1997.. | 248 761 | 123 904 | 25 498 | 99 359 | 250 386 | 129 723 | 20 224 | 100 439 | X | X | X | X |
| 334815 | Lighting fixture mfg | 1998.. | 225 563 | 100 029 | 28 504 | 97 030 | 250 366 | 124 181 | 25 492 | 100 693 | 1 | 1 | 1 | 1 |
| 334816 | Lighting fixture mfg | 1997.. | 248 761 | 123 904 | 25 498 | 99 359 | 250 386 | 129 723 | 20 224 | 100 439 | X | X | X | X |
| 334817 | Residential electric lighting fixture mfg | 1998.. | 1 299 150 | 450 088 | 173 786 | 675 277 | 1 260 465 | 454 003 | 173 373 | 633 090 | 2 | 2 | 5 | 3 |
| 334818 | Residential electric lighting fixture mfg | 1997.. | 1 275 569 | 462 026 | 173 422 | 640 121 | 1 201 125 | 446 022 | 167 361 | 587 742 | X | X | X | X |
| 334819 | Commercial/industrial/institutional electric lighting fixture mfg | 1998.. | 404 456 | 144 831 | 46 817 | 212 808 | 409 777 | 161 323 | 48 338 | 200 116 | 2 | 3 | 2 | 3 |
| 334820 | Commercial/industrial/institutional electric lighting fixture mfg | 1997.. | 389 267 | 159 294 | 43 066 | 186 907 | 369 344 | 162 180 | 41 076 | 166 088 | X | X | X | X |
| 334821 | Other lighting equipment mfg | 1998.. | 399 538 | 135 948 | 51 239 | 212 352 | 372 749 | 125 958 | 54 314 | 192 477 | 6 | 5 | 18 | 7 |
| 334822 | Other lighting equipment mfg | 1997.. | 395 437 | 130 384 | 58 511 | 206 542 | 370 875 | 123 560 | 55 651 | 191 664 | X | X | X | X |
| 334823 | Household appliance mfg | 1998.. | 2 253 714 | 1 319 807 | 280 986 | 652 921 | 2 114 292 | 1 200 052 | 262 997 | 651 243 | 3 | 2 | 1 | 5 |
| 334824 | Household appliance mfg | 1997.. | 2 141 807 | 1 205 648 | 268 918 | 667 241 | 2 088 014 | 1 201 992 | 290 104 | 595 918 | X | X | X | X |

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|--------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|----|---|---|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | A | B | C | D | E | F | G | H | A | B | C | D | |
| 335 | Electrical equipment, appliance, & component mfg—Con. | | | | | | | | | | | | | |
| 3352 | Household appliance mfg—Con. | | | | | | | | | | | | | |
| 33521 | Small electrical appliance mfg | 1998.. | 741 892 | 388 258 | 126 845 | 226 789 | 702 470 | 381 013 | 112 711 | 208 746 | 3 | 1 | 2 | 5 |
| | | 1997.. | 708 601 | 381 954 | 114 906 | 211 741 | 689 853 | 393 564 | 115 564 | 180 725 | X | X | X | X |
| 335211 | Electric housewares & household fan mfg | 1998.. | 458 017 | 219 335 | 66 819 | 171 864 | 455 085 | 234 367 | 61 640 | 159 078 | 4 | 2 | 4 | 7 |
| | | 1997.. | 460 506 | 234 970 | 63 697 | 161 839 | 437 568 | 235 526 | 69 175 | 132 867 | X | X | X | X |
| 335212 | Household vacuum cleaner mfg | 1998.. | 283 875 | 168 923 | 60 027 | 54 925 | 247 385 | 146 646 | 51 071 | 49 668 | 1 | 1 | 1 | 1 |
| | | 1997.. | 248 095 | 146 984 | 51 209 | 49 902 | 252 285 | 158 038 | 46 389 | 47 858 | X | X | X | X |
| 33522 | Major appliance mfg | 1998.. | 1 511 822 | 931 550 | 154 140 | 426 132 | 1 411 129 | 819 039 | 150 286 | 442 497 | 4 | 2 | 1 | 7 |
| | | 1997.. | 1 433 206 | 823 694 | 154 012 | 455 500 | 1 398 161 | 808 428 | 174 540 | 415 193 | X | X | X | X |
| 335221 | Household cooking appliance mfg | 1998.. | 488 255 | 259 414 | 60 698 | 168 142 | 390 244 | 184 620 | 54 843 | 150 781 | 11 | 9 | 2 | 18 |
| | | 1997.. | 414 415 | 190 346 | 58 300 | 165 769 | 417 928 | 197 091 | 70 538 | 150 299 | X | X | X | X |
| 335222 | Household refrigerator & home freezer mfg | 1998.. | 438 515 | 302 078 | 26 272 | 110 165 | 419 573 | 269 281 | 24 094 | 126 198 | 1 | 1 | 1 | 1 |
| | | 1997.. | 419 351 | 269 047 | 24 047 | 126 257 | 396 889 | 261 505 | 33 883 | 101 501 | X | X | X | X |
| 335224 | Household laundry equipment mfg | 1998.. | 362 441 | 263 968 | 31 857 | 66 616 | 369 888 | 259 566 | 33 962 | 76 360 | 1 | 1 | 1 | 1 |
| | | 1997.. | 368 146 | 259 321 | 34 279 | 74 546 | 341 830 | 236 562 | 30 744 | 74 524 | X | X | X | X |
| 335228 | Other major household appliance mfg | 1998.. | 222 611 | 106 089 | 35 314 | 81 208 | 232 117 | 105 572 | 37 387 | 89 158 | 1 | 1 | 1 | 1 |
| | | 1997.. | 231 294 | 104 980 | 37 386 | 88 928 | 241 514 | 113 270 | 39 375 | 88 869 | X | X | X | X |
| 3353 | Electrical equipment mfg | 1998.. | 4 150 075 | 1 204 019 | 1 248 316 | 1 697 739 | 4 285 840 | 1 156 041 | 1 339 850 | 1 789 949 | 2 | 2 | 4 | 5 |
| 33531 | Electrical equipment mfg | 1997.. | 4 318 137 | 1 175 177 | 1 361 202 | 1 781 758 | 4 244 687 | 1 161 782 | 1 376 952 | 1 705 953 | X | X | X | X |
| 335311 | Power, distribution, & specialty transformer mfg | 1998.. | 494 746 | 150 120 | 127 555 | 217 071 | 534 570 | 139 642 | 156 837 | 238 091 | 6 | 9 | 6 | 12 |
| | | 1997.. | 528 371 | 136 525 | 165 349 | 226 497 | 511 129 | 124 295 | 166 345 | 220 489 | X | X | X | X |
| 335312 | Motor & generator mfg | 1998.. | 1 270 726 | 462 711 | 399 267 | 408 747 | 1 332 458 | 428 308 | 405 063 | 499 087 | 5 | 3 | 9 | 19 |
| 335313 | Switchgear & switchboard apparatus mfg | 1998.. | 871 942 | 213 790 | 266 242 | 391 910 | 808 571 | 194 634 | 251 696 | 362 241 | 3 | 1 | 2 | 4 |
| | | 1997.. | 806 024 | 195 247 | 250 877 | 359 900 | 780 733 | 181 390 | 263 887 | 335 456 | X | X | X | X |
| 335314 | Relay & industrial control mfg | 1998.. | 1 512 662 | 377 398 | 455 252 | 680 012 | 1 610 241 | 393 457 | 526 254 | 690 530 | 3 | 3 | 8 | 2 |
| | | 1997.. | 1 596 094 | 390 044 | 520 290 | 685 760 | 1 548 177 | 376 387 | 525 727 | 646 063 | X | X | X | X |
| 3359 | Other electrical equipment & component mfg | 1998.. | 5 903 858 | 2 010 612 | 1 621 566 | 2 271 680 | 5 753 622 | 1 955 055 | 1 667 442 | 2 131 125 | 1 | 1 | 1 | 2 |
| 33591 | Battery mfg | 1998.. | 5 608 150 | 1 901 582 | 1 657 848 | 2 048 720 | 5 303 496 | 1 868 877 | 1 604 335 | 1 830 284 | X | X | X | X |
| 335911 | Storage battery mfg | 1997.. | 672 960 | 226 777 | 228 457 | 217 726 | 668 946 | 216 302 | 256 996 | 195 647 | 1 | 1 | 1 | 2 |
| 335912 | Primary battery mfg | 1998.. | 669 506 | 215 628 | 259 356 | 194 522 | 672 136 | 230 878 | 243 002 | 198 256 | X | X | X | X |
| | | 1997.. | 485 866 | 192 869 | 145 177 | 147 820 | 502 940 | 187 993 | 176 216 | 138 730 | 1 | 1 | 1 | 2 |
| 33592 | Communication & energy wire & cable mfg | 1998.. | 187 094 | 33 908 | 83 280 | 69 906 | 166 006 | 207 001 | 181 919 | 131 861 | X | X | X | X |
| | | 1997.. | 162 609 | 25 635 | 80 513 | 56 461 | 151 355 | 23 877 | 61 083 | 56 917 | 3 | 5 | 1 | 4 |
| 335929 | Other communication & energy wire mfg | 1998.. | 1 499 746 | 715 031 | 370 343 | 414 373 | 1 489 360 | 821 725 | 485 928 | 533 500 | 1 | 1 | 2 | 3 |
| 335921 | Fiber optic cable mfg | 1998.. | 1 857 910 | 827 085 | 509 906 | 520 919 | 1 841 153 | 821 725 | 485 928 | 533 500 | X | X | X | X |
| | | 1997.. | 1 859 121 | 816 881 | 497 426 | 544 814 | 1 743 861 | 789 755 | 480 181 | 473 925 | 2 | 2 | 3 | 4 |
| 335929 | Other communication & energy wire mfg | 1998.. | 358 163 | 112 054 | 139 564 | 106 546 | 351 793 | 113 436 | 112 790 | 125 567 | X | X | X | X |
| | | 1997.. | 344 025 | 110 736 | 111 023 | 122 266 | 285 997 | 75 742 | 91 455 | 118 800 | X | X | X | X |
| 33599 | All other electrical equipment & component mfg | 1998.. | 1 492 743 | 436 698 | 611 380 | 894 665 | 1 815 314 | 392 499 | 623 520 | 799 295 | 1 | 1 | 2 | 3 |
| 335991 | Carbon & graphite product mfg | 1998.. | 535 598 | 150 261 | 234 526 | 150 811 | 500 823 | 124 645 | 227 966 | 148 212 | 1 | 1 | 1 | 4 |
| 335999 | All other miscellaneous electrical equipment & component mfg | 1998.. | 511 415 | 124 293 | 239 107 | 148 015 | 458 328 | 116 274 | 224 264 | 117 790 | X | X | X | X |
| | | 1997.. | 1 407 145 | 286 437 | 376 853 | 743 854 | 1 314 491 | 267 854 | 395 554 | 651 083 | 2 | 2 | 3 | 4 |
| 336 | Transportation equipment mfg | 1998.. | 75 761 757 | 9 684 166 | 48 880 688 | 17 196 902 | 65 685 642 | 9 176 662 | 40 686 854 | 15 822 125 | 1 | 1 | 1 | 1 |
| | | 1997.. | 65 863 649 | 9 464 771 | 40 439 851 | 15 959 027 | 64 701 279 | 8 361 715 | 41 369 154 | 14 970 410 | X | X | X | X |
| 3361 | Motor vehicle mfg | 1998.. | 4 335 081 | 369 007 | 1 586 378 | 2 379 695 | 4 613 010 | 479 709 | 1 623 391 | 2 509 910 | 1 | 1 | 1 | 1 |
| 33611 | Automobile & light duty motor vehicle mfg | 1997.. | 4 589 500 | 468 180 | 1 579 798 | 2 541 522 | 4 263 451 | 346 912 | 1 472 124 | 2 444 415 | X | X | X | X |
| 336111 | Automobile mfg | 1998.. | 3 469 661 | 260 438 | 1 291 517 | 1 917 706 | 3 814 282 | 344 043 | 1 365 215 | 2 105 024 | 1 | 1 | 1 | 1 |
| | | 1997.. | 3 804 485 | 337 125 | 1 363 860 | 2 103 500 | 3 599 166 | 246 988 | 1 274 550 | 2 077 628 | X | X | X | X |
| 336112 | Light truck & utility vehicle mfg | 1998.. | 1 910 828 | 180 578 | 452 524 | 1 277 725 | 2 202 946 | 210 208 | 555 774 | 1 436 964 | 1 | 1 | 1 | 1 |
| | | 1997.. | 2 193 552 | 203 442 | 554 694 | 1 435 416 | 2 185 429 | 133 444 | 509 334 | 1 542 651 | X | X | X | X |
| 33612 | Heavy duty truck mfg | 1998.. | 865 420 | 108 570 | 294 861 | 461 989 | 798 728 | 135 666 | 258 176 | 404 886 | 1 | 2 | 1 | 1 |
| | | 1997.. | 785 015 | 131 055 | 215 938 | 438 022 | 664 285 | 99 924 | 197 574 | 366 787 | X | X | X | X |
| 336120 | Heavy duty truck mfg | 1998.. | 865 420 | 108 570 | 294 861 | 461 989 | 798 728 | 135 666 | 258 176 | 404 886 | 1 | 2 | 1 | 1 |
| | | 1997.. | 785 015 | 131 055 | 215 938 | 438 022 | 664 285 | 99 924 | 197 574 | 366 787 | X | X | X | X |

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|-------------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|----|----|----|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | A | B | C | D | E | F | G | H | A | B | C | D | |
| 336 | Transportation equipment mfg—Con. | | | | | | | | | | | | | |
| 3362 | Motor vehicle body & trailer mfg | 1998.. | 2 793 718 | 637 839 | 616 330 | 1 539 549 | 2 947 619 | 681 705 | 676 699 | 1 589 215 | 7 | 8 | 20 | 3 |
| | | 1997.. | 2 955 695 | 695 220 | 670 139 | 1 590 336 | 2 694 618 | 644 686 | 688 798 | 1 361 134 | X | X | X | X |
| 33621 | Motor vehicle body & trailer mfg | 1998.. | 2 793 718 | 637 839 | 616 330 | 1 539 549 | 2 947 619 | 681 705 | 676 699 | 1 589 215 | 7 | 8 | 20 | 3 |
| | | 1997.. | 2 955 695 | 695 220 | 670 139 | 1 590 336 | 2 694 618 | 644 686 | 688 798 | 1 361 134 | X | X | X | X |
| 336211 | Motor vehicle body mfg | 1998.. | 960 480 | 163 607 | 231 653 | 565 220 | 1 046 699 | 203 809 | 350 387 | 492 503 | 21 | 27 | 52 | 6 |
| 336212 | Truck trailer mfg | 1998.. | 832 853 | 172 905 | 213 449 | 446 499 | 970 925 | 194 350 | 368 924 | 528 946 | X | X | X | X |
| 336213 | Motor home mfg | 1998.. | 977 632 | 190 055 | 155 356 | 632 221 | 674 313 | 154 062 | 140 911 | 379 340 | X | X | X | X |
| 336214 | Travel trailer & camper mfg | 1998.. | 441 954 | 90 027 | 93 173 | 258 754 | 417 696 | 100 471 | 85 620 | 231 604 | 1 | 2 | 1 | 1 |
| | | 1997.. | 421 649 | 100 994 | 92 684 | 227 971 | 460 086 | 114 551 | 104 652 | 240 883 | X | X | X | X |
| 3363 | Motor vehicle parts mfg | 1998.. | 13 676 995 | 3 552 563 | 4 515 042 | 5 609 390 | 12 805 918 | 3 180 043 | 4 411 172 | 5 214 703 | 1 | 1 | 1 | 1 |
| | | 1997.. | 12 947 529 | 3 202 646 | 4 448 083 | 5 296 800 | 13 244 853 | 3 136 533 | 4 723 541 | 5 384 779 | X | X | X | X |
| 33631 | Motor vehicle gasoline engine & engine parts mfg | 1998.. | 2 019 844 | 435 950 | 946 835 | 637 059 | 1 936 339 | 435 211 | 911 104 | 590 024 | 1 | 2 | 1 | 1 |
| | | 1997.. | 1 935 493 | 436 454 | 894 034 | 605 005 | 2 054 631 | 393 971 | 994 827 | 665 833 | X | X | X | X |
| 336311 | Carburetor, piston, piston ring, & valve mfg | 1998.. | 231 037 | 81 110 | 81 067 | 68 859 | 216 360 | 69 573 | 74 458 | 72 329 | 6 | 11 | 4 | 7 |
| | | 1997.. | 221 560 | 70 467 | 76 847 | 74 246 | 224 335 | 73 014 | 79 104 | 72 217 | X | X | X | X |
| 336312 | Gasoline engine & engine parts mfg | 1998.. | 1 788 807 | 354 839 | 865 768 | 568 200 | 1 719 979 | 365 638 | 836 646 | 517 695 | 1 | 1 | 1 | 1 |
| | | 1997.. | 1 713 933 | 365 987 | 817 187 | 530 759 | 1 830 296 | 320 957 | 915 723 | 593 616 | X | X | X | X |
| 33632 | Motor vehicle electrical & electronic equipment mfg | 1998.. | 2 219 179 | 665 320 | 567 535 | 986 324 | 2 055 335 | 568 738 | 615 495 | 871 102 | 1 | 1 | 1 | 1 |
| | | 1997.. | 2 108 897 | 583 501 | 611 443 | 913 953 | 2 273 544 | 641 167 | 669 864 | 962 513 | X | X | X | X |
| 336321 | Vehicular lighting equipment mfg | 1998.. | 264 818 | 73 182 | 85 851 | 105 785 | 265 228 | 60 806 | 99 334 | 105 088 | 1 | 2 | 1 | 1 |
| | | 1997.. | 283 887 | 63 173 | 102 323 | 118 391 | 300 976 | 64 510 | 110 879 | 125 587 | X | X | X | X |
| 336322 | Other motor vehicle electrical & electronic equipment mfg | 1998.. | 1 954 360 | 592 138 | 481 684 | 880 539 | 1 790 107 | 507 932 | 516 160 | 766 014 | 1 | 1 | 1 | 1 |
| | | 1997.. | 1 825 010 | 520 328 | 509 120 | 795 562 | 1 972 568 | 576 657 | 558 985 | 836 926 | X | X | X | X |
| 33633 | Motor vehicle steering & suspension component (except spring) mfg | 1998.. | 717 180 | 152 823 | 173 013 | 391 344 | 754 502 | 179 736 | 188 175 | 386 591 | 1 | 4 | 4 | 1 |
| | | 1997.. | 764 084 | 183 089 | 194 438 | 386 557 | 723 006 | 144 000 | 207 425 | 371 581 | X | X | X | X |
| 336330 | Motor vehicle steering & suspension component (except spring) mfg | 1998.. | 717 180 | 152 823 | 173 013 | 391 344 | 754 502 | 179 736 | 188 175 | 386 591 | 1 | 4 | 4 | 1 |
| | | 1997.. | 764 084 | 183 089 | 194 438 | 386 557 | 723 006 | 144 000 | 207 425 | 371 581 | X | X | X | X |
| 33634 | Motor vehicle brake system mfg | 1998.. | 904 762 | 331 824 | 152 745 | 420 193 | 830 928 | 305 870 | 144 384 | 380 673 | 9 | 11 | 2 | 11 |
| | | 1997.. | 834 869 | 312 672 | 145 124 | 377 073 | 830 978 | 293 261 | 144 005 | 393 712 | X | X | X | X |
| 336340 | Motor vehicle brake system mfg | 1998.. | 904 762 | 331 824 | 152 745 | 420 193 | 830 928 | 305 870 | 144 384 | 380 673 | 9 | 11 | 2 | 11 |
| | | 1997.. | 834 869 | 312 672 | 145 124 | 377 073 | 830 978 | 293 261 | 144 005 | 393 712 | X | X | X | X |
| 33635 | Motor vehicle transmission & power train parts mfg | 1998.. | 2 501 611 | 535 206 | 1 239 749 | 726 656 | 2 333 841 | 488 191 | 966 697 | 878 953 | 1 | 2 | 1 | 1 |
| | | 1997.. | 2 316 212 | 452 970 | 986 822 | 876 420 | 2 417 979 | 392 128 | 1 071 819 | 954 032 | X | X | X | X |
| 336350 | Motor vehicle transmission & power train parts mfg | 1998.. | 2 501 611 | 535 206 | 1 239 749 | 726 656 | 2 333 841 | 488 191 | 966 697 | 878 953 | 1 | 2 | 1 | 1 |
| | | 1997.. | 2 316 212 | 452 970 | 986 822 | 876 420 | 2 417 979 | 392 128 | 1 071 819 | 954 032 | X | X | X | X |
| 33636 | Motor vehicle seating & interior trim mfg | 1998.. | 502 302 | 79 269 | 110 931 | 312 103 | 422 498 | 68 134 | 108 134 | 246 230 | 2 | 3 | 2 | 2 |
| | | 1997.. | 499 958 | 81 998 | 121 145 | 296 815 | 428 960 | 87 858 | 100 841 | 240 261 | X | X | X | X |
| 336360 | Motor vehicle seating & interior trim mfg | 1998.. | 502 302 | 79 269 | 110 931 | 312 103 | 422 498 | 68 134 | 108 134 | 246 230 | 2 | 3 | 2 | 2 |
| | | 1997.. | 499 958 | 81 998 | 121 145 | 296 815 | 428 960 | 87 858 | 100 841 | 240 261 | X | X | X | X |
| 336367 | Motor vehicle metal stamping | 1998.. | 1 316 948 | 301 749 | 529 363 | 485 836 | 1 353 045 | 251 319 | 549 118 | 552 608 | 2 | 4 | 2 | 3 |
| | | 1997.. | 1 313 439 | 256 084 | 555 800 | 501 555 | 1 400 931 | 257 008 | 596 286 | 547 637 | X | X | X | X |
| 336370 | Motor vehicle metal stamping | 1998.. | 1 316 948 | 301 749 | 529 363 | 485 836 | 1 353 045 | 251 319 | 549 118 | 552 608 | 2 | 4 | 2 | 3 |
| | | 1997.. | 1 313 439 | 256 084 | 555 800 | 501 555 | 1 400 931 | 257 008 | 596 286 | 547 637 | X | X | X | X |
| 336389 | Other motor vehicle parts mfg | 1998.. | 3 495 169 | 1 050 423 | 794 871 | 1 649 875 | 3 119 430 | 882 844 | 928 065 | 1 308 521 | 1 | 1 | 1 | 1 |
| | | 1997.. | 3 174 577 | 895 878 | 939 277 | 1 339 422 | 3 114 824 | 927 140 | 938 474 | 1 249 210 | X | X | X | X |
| 336391 | Motor vehicle air-conditioning mfg | 1998.. | 426 153 | 125 207 | 62 994 | 237 952 | 362 045 | 82 019 | 67 654 | 212 372 | 1 | 1 | 3 | 1 |
| | | 1997.. | 358 701 | 86 200 | 69 741 | 202 760 | 398 499 | 121 649 | 83 688 | 193 162 | X | X | X | X |
| 336399 | All other motor vehicle parts mfg | 1998.. | 3 069 016 | 925 217 | 731 878 | 1 411 922 | 2 757 385 | 800 825 | 860 411 | 1 096 149 | 1 | 1 | 1 | 1 |
| | | 1997.. | 2 815 876 | 809 678 | 869 536 | 1 136 662 | 2 716 325 | 805 491 | 854 786 | 1 056 048 | X | X | X | X |
| 3364 | Aerospace product & parts mfg | 1998.. | 50 221 178 | 3 890 211 | 40 209 223 | 6 121 743 | 40 552 871 | 3 659 766 | 31 791 862 | 5 101 243 | 1 | 1 | 1 | 1 |
| | | 1997.. | 40 528 758 | 3 906 693 | 31 523 945 | 5 098 120 | 39 769 306 | 3 212 430 | 32 144 765 | 4 412 111 | X | X | X | X |
| 33641 | Aerospace product & parts mfg | 1998.. | 50 221 178 | 3 890 211 | 40 209 223 | 6 121 743 | 40 552 871 | 3 659 766 | 31 791 862 | 5 101 243 | 1 | 1 | 1 | 1 |
| | | 1997.. | 40 528 758 | 3 906 693 | 31 523 945 | 5 098 120 | 39 769 306 | 3 212 430 | 32 144 765 | 4 412 111 | X | X | X | X |
| 336411 | Aircraft mfg | 1998.. | 35 368 462 | 1 588 089 | 29 770 925 | 4 009 448 | 27 415 704 | 1 403 708 | 22 835 975 | 3 176 021 | 1 | 1 | 1 | 1 |
| | | 1997.. | 27 692 953 | 1 687 456 | 22 813 231 | 3 192 266 | 27 767 517 | 1 671 834 | 23 300 069 | 2 795 614 | X | X | X | X |
| 336412 | Aircraft engine & engine parts mfg | 1998.. | 3 989 779 | 1 476 688 | 1 927 014 | 586 077 | 3 782 571 | 1 235 637 | 2 063 544 | 483 390 | 1 | 1 | 1 | 1 |
| | | 1997.. | 3 835 609 | 1 287 345 | 2 054 315 | 493 949 | 3 533 451 | 1 024 816 | 2 055 812 | 452 823 | X | X | X | X |
| 336413 | Other aircraft part & auxiliary equipment mfg | 1998.. | 7 278 523 | 818 248 | 5 221 579 | 1 238 697 | 6 320 819 | 1 013 720 | 4 153 838 | 1 153 261 | 1 | 1 | 1 | 1 |
| | | 1997.. | 5 963 595 | 923 167 | 5 915 929 | 1 124 499 | 6 478 686 | 510 328 | 4 287 724 | 811 548 | X | X | X | X |
| 336414 | Guided missile & space vehicle mfg | 1998.. | 3 058 989 | D | 2 875 936 | D | 2 585 779 | D | 2 387 724 | D | 1 | X | X | X |
| | | 1997.. | 2 586 417 | D | 2 387 724 | D | 3 274 191 | D | 3 000 742 | D | 1 | X | X | X |
| 336415 | Guided missile & space vehicle propulsion unit & parts mfg | 1998.. | 320 903 | D | 281 831 | D | 252 273 | D | 209 459 | D | 1 | X | X | X |
| | | 1997.. | 338 001 | D | 275 786 | D | 307 230 | D | 255 363 | D | 1 | X | X | X |

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | |
|------------|------------------------------------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|----|---|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | I | X | X | X |
| 336 | Transportation equipment mfg—Con. | | | | | | | | | | | | |
| 3364 | Aerospace product & parts mfg—Con. | | | | | | | | | | | | |
| 33641 | Aerospace product & parts mfg—Con. | | | | | | | | | | | | |
| 336419 | Other guided missile & space vehicle parts & auxiliary equip mfg | 1998.. | 204 522 | D | 131 939 | D | 195 725 | D | 141 322 | D | 1 | X | X |
| | | 1997.. | 112 183 | D | 76 960 | D | 103 231 | D | 70 969 | D | 1 | X | X |
| 3365 | Railroad rolling stock mfg | 1998.. | 1 682 792 | 475 673 | 705 815 | 501 303 | 1 592 216 | 394 220 | 764 061 | 433 936 | 1 | 1 | 1 |
| | | 1997.. | 1 591 538 | 400 213 | 761 923 | 429 402 | 1 395 563 | 321 732 | 661 262 | 412 569 | X | X | X |
| 33651 | Railroad rolling stock mfg | 1998.. | 1 682 792 | 475 673 | 705 815 | 501 303 | 1 592 216 | 394 220 | 764 061 | 433 936 | 1 | 1 | 1 |
| | | 1997.. | 1 591 538 | 400 213 | 761 923 | 429 402 | 1 395 563 | 321 732 | 661 262 | 412 569 | X | X | X |
| 336510 | Railroad rolling stock mfg | 1998.. | 1 682 792 | 475 673 | 705 815 | 501 303 | 1 592 216 | 394 220 | 764 061 | 433 936 | 1 | 1 | 1 |
| | | 1997.. | 1 591 538 | 400 213 | 761 923 | 429 402 | 1 395 563 | 321 732 | 661 262 | 412 569 | X | X | X |
| 3366 | Ship & boat building | 1998.. | 1 810 865 | 297 928 | 938 871 | 574 066 | 1 955 669 | 305 074 | 1 096 113 | 554 482 | 3 | 7 | 4 |
| | | 1997.. | 2 006 997 | 312 525 | 1 129 521 | 564 951 | 2 119 688 | 279 342 | 1 298 892 | 541 454 | X | X | X |
| 33661 | Ship & boat building | 1998.. | 1 810 865 | 297 928 | 938 871 | 574 066 | 1 955 669 | 305 074 | 1 096 113 | 554 482 | 3 | 7 | 4 |
| | | 1997.. | 2 006 997 | 312 525 | 1 129 521 | 564 951 | 2 119 688 | 279 342 | 1 298 892 | 541 454 | X | X | X |
| 336611 | Ship building & repairing | 1998.. | 1 041 379 | 65 940 | 736 036 | 239 404 | 1 218 286 | 62 016 | 920 781 | 235 488 | 3 | 2 | 4 |
| | | 1997.. | 1 256 005 | 68 682 | 948 651 | 238 672 | 1 412 273 | 51 773 | 1 130 498 | 230 002 | X | X | X |
| 336612 | Boat building | 1998.. | 769 485 | 231 988 | 202 835 | 334 662 | 737 383 | 243 057 | 175 332 | 318 994 | 4 | 9 | 3 |
| | | 1997.. | 750 992 | 243 843 | 180 870 | 326 279 | 707 415 | 227 569 | 168 394 | 311 452 | X | X | X |
| 3369 | Other transportation equipment mfg | 1998.. | 1 241 128 | 460 944 | 309 029 | 471 155 | 1 218 338 | 476 146 | 323 556 | 418 636 | 2 | 1 | 1 |
| | | 1997.. | 1 243 632 | 479 294 | 326 442 | 437 896 | 1 213 800 | 420 080 | 379 772 | 413 948 | X | X | X |
| 33699 | Other transportation equipment mfg | 1998.. | 1 241 128 | 460 944 | 309 029 | 471 155 | 1 218 338 | 476 146 | 323 556 | 418 636 | 2 | 1 | 1 |
| | | 1997.. | 1 243 632 | 479 294 | 326 442 | 437 896 | 1 213 800 | 420 080 | 379 772 | 413 948 | X | X | X |
| 336991 | Motorcycle, bicycle, & parts mfg | 1998.. | 462 616 | 223 037 | 74 564 | 165 016 | 427 110 | 225 359 | 80 568 | 121 182 | 4 | 2 | 5 |
| | | 1997.. | 430 412 | 227 059 | 80 644 | 122 709 | 392 706 | 212 131 | 70 036 | 110 539 | X | X | 12 |
| 336992 | Military armored vehicle, tank, & tank component mfg | 1998.. | 243 668 | 25 398 | 159 325 | 58 945 | 242 930 | 10 530 | 175 856 | 56 544 | 1 | 1 | 1 |
| | | 1997.. | 262 050 | 13 994 | 179 093 | 68 963 | 266 719 | 6 763 | 231 898 | 48 058 | X | X | X |
| 336999 | All other transportation equipment mfg | 1998.. | 534 844 | 212 510 | 75 140 | 247 194 | 548 299 | 240 257 | 67 132 | 240 909 | 1 | 1 | 2 |
| | | 1997.. | 551 170 | 238 241 | 66 705 | 246 224 | 534 375 | 201 186 | 77 838 | 255 351 | X | X | 1 |
| 337 | Furniture & related product mfg | 1998.. | 8 032 505 | 2 696 799 | 1 634 787 | 3 700 919 | 7 528 655 | 2 543 182 | 1 528 445 | 3 457 027 | 1 | 1 | 2 |
| | | 1997.. | 7 582 820 | 2 527 830 | 1 562 632 | 3 492 358 | 7 399 620 | 2 544 018 | 1 523 675 | 3 331 927 | X | X | 1 |
| 3371 | Household & institutional furniture & kitchen cabinet mfg | 1998.. | 5 329 513 | 1 871 828 | 1 090 667 | 2 367 018 | 4 971 587 | 1 763 569 | 1 021 853 | 2 186 165 | 1 | 1 | 1 |
| | | 1997.. | 4 960 206 | 1 737 560 | 1 033 511 | 2 189 135 | 4 796 627 | 1 762 408 | 983 271 | 2 050 948 | X | X | X |
| 33711 | Wood kitchen cabinet & counter top mfg | 1998.. | 929 041 | 230 280 | 216 968 | 481 793 | 858 776 | 221 541 | 202 100 | 435 136 | 2 | 4 | 2 |
| | | 1997.. | 855 382 | 210 408 | 207 106 | 437 868 | 819 972 | 210 198 | 208 574 | 401 200 | X | X | X |
| 337110 | Wood kitchen cabinet & counter top mfg | 1998.. | 929 041 | 230 280 | 216 968 | 481 793 | 858 776 | 221 541 | 202 100 | 435 136 | 2 | 4 | 2 |
| | | 1997.. | 855 382 | 210 408 | 207 106 | 437 868 | 819 972 | 210 198 | 208 574 | 401 200 | X | X | X |
| 33712 | Household & institutional furniture mfg | 1998.. | 4 400 472 | 1 641 548 | 873 699 | 1 885 225 | 4 112 811 | 1 542 028 | 819 753 | 1 751 029 | 1 | 1 | 2 |
| | | 1997.. | 4 104 824 | 1 527 152 | 826 405 | 1 751 267 | 3 976 655 | 1 552 210 | 774 697 | 1 649 748 | X | X | X |
| 337121 | Upholstered household furniture mfg | 1998.. | 888 425 | 186 626 | 152 831 | 548 969 | 823 077 | 175 596 | 157 147 | 490 334 | 1 | 1 | 1 |
| | | 1997.. | 846 174 | 173 202 | 162 991 | 509 981 | 788 758 | 161 376 | 149 547 | 477 835 | X | X | X |
| 337122 | Nonupholstered wood household furniture mfg | 1998.. | 2 267 371 | 1 075 249 | 461 843 | 730 279 | 2 140 464 | 1 027 005 | 418 933 | 694 527 | 1 | 1 | 1 |
| | | 1997.. | 2 151 847 | 1 028 469 | 422 980 | 700 398 | 2 125 317 | 1 042 542 | 409 401 | 673 374 | X | X | X |
| 337124 | Metal household furniture mfg | 1998.. | 431 397 | 156 976 | 77 085 | 197 335 | 378 667 | 133 290 | 67 133 | 178 244 | 7 | 4 | 11 |
| | | 1997.. | 349 491 | 130 629 | 62 828 | 156 034 | 364 475 | 142 675 | 55 260 | 166 540 | X | X | X |
| 337125 | Household furniture (except wood & metal) mfg | 1998.. | 78 295 | 32 469 | 7 466 | 38 360 | 77 376 | 36 126 | 8 222 | 33 028 | 3 | 6 | 3 |
| | | 1997.. | 78 195 | 36 495 | 7 604 | 34 096 | 71 262 | 31 552 | 8 460 | 31 250 | X | X | X |
| 337127 | Institutional furniture mfg | 1998.. | 704 689 | 182 773 | 165 423 | 356 493 | 661 699 | 163 218 | 158 935 | 339 546 | 3 | 4 | 4 |
| | | 1997.. | 648 063 | 151 667 | 160 948 | 335 448 | 591 002 | 157 521 | 144 609 | 288 872 | X | X | X |
| 337129 | Wood television, radio, & sewing machine cabinet mfg | 1998.. | 30 295 | 7 456 | 9 051 | 13 788 | 31 526 | 6 792 | 9 384 | 15 350 | 6 | 1 | 12 |
| | | 1997.. | 31 054 | 6 690 | 9 054 | 15 310 | 35 841 | 16 544 | 7 420 | 11 877 | X | X | X |
| 3372 | Office furniture (including fixtures) mfg | 1998.. | 2 079 198 | 647 870 | 497 356 | 933 972 | 1 984 779 | 615 357 | 463 589 | 905 833 | 2 | 2 | 6 |
| | | 1997.. | 2 031 762 | 622 886 | 478 570 | 930 306 | 2 025 043 | 615 322 | 486 036 | 923 685 | X | X | X |
| 33721 | Office furniture (including fixtures) mfg | 1998.. | 2 079 198 | 647 870 | 497 356 | 933 972 | 1 984 779 | 615 357 | 463 589 | 905 833 | 2 | 2 | 6 |
| | | 1997.. | 2 031 762 | 622 886 | 478 570 | 930 306 | 2 025 043 | 615 322 | 486 036 | 923 685 | X | X | X |
| 337211 | Wood office furniture mfg | 1998.. | 347 811 | 72 750 | 84 607 | 190 455 | 338 404 | 77 097 | 78 926 | 182 381 | 2 | 2 | 4 |
| | | 1997.. | 355 000 | 80 613 | 83 870 | 190 517 | 333 383 | 77 190 | 79 458 | 176 735 | X | X | X |
| 337212 | Custom architectural woodwork & millwork mfg | 1998.. | 256 302 | 67 546 | 97 737 | 91 019 | 215 261 | 61 263 | 66 386 | 87 613 | 13 | 5 | 30 |
| | | 1997.. | 205 782 | 54 319 | 67 337 | 84 126 | 201 197 | 58 488 | 65 137 | 77 572 | X | X | X |
| 337214 | Office furniture (except wood) mfg | 1998.. | 505 423 | 118 381 | 82 500 | 304 542 | 497 197 | 110 041 | 93 986 | 293 170 | 1 | 4 | 7 |
| | | 1997.. | 492 967 | 106 109 | 93 164 | 293 694 | 510 501 | 108 007 | 108 448 | 294 046 | X | X | X |
| 337215 | Showcase, partition, shelving, & locker mfg | 1998.. | 969 662 | 389 193 | 232 513 | 347 956 | 933 916 | 366 957 | 224 291 | 342 669 | 2 | 3 | 4 |
| | | 1997.. | 978 013 | 381 845 | 234 199 | 361 969 | 979 962 | 371 637 | 232 993 | 375 332 | X | X | X |

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | | |
|------------|----------------------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|---|----|----|----|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D | |
| | | A | B | C | D | E | F | G | H | X | X | X | X | |
| 337 | Furniture & related product mfg—Con. | | | | | | | | | | | | | |
| 3379 | Other furniture related product mfg | 1998.. | 623 795 | 177 102 | 46 764 | 399 929 | 572 289 | 164 256 | 43 003 | 365 030 | 3 | 2 | 15 | 4 |
| | | 1997.. | 590 852 | 167 384 | 50 551 | 372 917 | 577 950 | 166 288 | 54 368 | 357 294 | X | X | X | X |
| 33791 | Mattress mfg | 1998.. | 234 376 | 55 068 | 16 863 | 162 446 | 224 350 | 53 182 | 14 649 | 156 519 | 5 | 6 | 40 | 3 |
| | | 1997.. | 235 405 | 56 664 | 21 192 | 157 549 | 215 715 | 54 127 | 20 503 | 141 085 | X | X | X | X |
| 337910 | Mattress mfg | 1998.. | 234 376 | 55 068 | 16 863 | 162 446 | 224 350 | 53 182 | 14 649 | 156 519 | 5 | 6 | 40 | 3 |
| | | 1997.. | 235 405 | 56 664 | 21 192 | 157 549 | 215 715 | 54 127 | 20 503 | 141 085 | X | X | X | X |
| 33792 | Blind & shade mfg..... | 1998.. | 389 419 | 122 034 | 29 902 | 237 483 | 347 939 | 111 074 | 28 354 | 208 512 | 4 | 1 | 7 | 6 |
| | | 1997.. | 355 447 | 110 720 | 29 359 | 215 368 | 362 235 | 112 161 | 33 865 | 216 209 | X | X | X | X |
| 337920 | Blind & shade mfg..... | 1998.. | 389 419 | 122 034 | 29 902 | 237 483 | 347 939 | 111 074 | 28 354 | 208 512 | 4 | 1 | 7 | 6 |
| | | 1997.. | 355 447 | 110 720 | 29 359 | 215 368 | 362 235 | 112 161 | 33 865 | 216 209 | X | X | X | X |
| 339 | Miscellaneous mfg | 1998.. | 17 035 051 | 7 903 993 | 3 006 431 | 6 124 627 | 15 945 712 | 7 444 674 | 2 959 008 | 5 542 030 | 1 | 1 | 2 | 1 |
| | | 1997.. | 15 806 533 | 7 336 730 | 2 890 826 | 5 578 977 | 15 507 773 | 7 195 652 | 3 021 047 | 5 291 074 | X | X | X | X |
| 3391 | Medical equipment & supplies mfg | 1998.. | 7 772 493 | 3 519 040 | 1 485 894 | 2 767 559 | 7 238 846 | 3 346 099 | 1 419 208 | 2 473 539 | 1 | 1 | 4 | 2 |
| | | 1997.. | 7 009 937 | 3 232 388 | 1 318 464 | 2 459 085 | 6 848 838 | 3 142 392 | 1 510 423 | 2 196 023 | X | X | X | X |
| 33911 | Medical equipment & supplies mfg | 1998.. | 7 772 493 | 3 519 040 | 1 485 894 | 2 767 559 | 7 238 846 | 3 346 099 | 1 419 208 | 2 473 539 | 1 | 1 | 4 | 2 |
| | | 1997.. | 7 009 937 | 3 232 388 | 1 318 464 | 2 459 085 | 6 848 838 | 3 142 392 | 1 510 423 | 2 196 023 | X | X | X | X |
| 339111 | Laboratory apparatus & furniture mfg..... | 1998.. | 462 018 | 151 065 | 105 664 | 205 289 | 416 697 | 135 838 | 90 624 | 190 234 | 2 | 3 | 7 | 3 |
| | | 1997.. | 439 015 | 129 316 | 93 130 | 216 569 | 409 035 | 130 398 | 109 338 | 169 299 | X | X | X | X |
| 339112 | Surgical & medical instrument mfg..... | 1998.. | 2 749 121 | 1 155 999 | 548 760 | 1 044 361 | 2 574 605 | 1 099 244 | 517 212 | 958 149 | 2 | 3 | 4 | 2 |
| | | 1997.. | 2 544 004 | 1 067 386 | 511 332 | 965 286 | 2 437 869 | 989 274 | 576 592 | 872 003 | X | X | X | X |
| 339113 | Surgical appliance & supplies mfg..... | 1998.. | 2 858 757 | 1 333 936 | 508 258 | 1 016 563 | 2 579 755 | 1 298 280 | 426 477 | 854 998 | 3 | 1 | 10 | 5 |
| | | 1997.. | 2 441 395 | 1 237 057 | 383 155 | 821 183 | 2 478 748 | 1 275 785 | 422 317 | 780 646 | X | X | X | X |
| 339114 | Dental equipment & supplies mfg..... | 1998.. | 491 671 | 206 532 | 111 985 | 173 155 | 494 447 | 203 255 | 131 729 | 159 462 | 3 | 4 | 6 | 4 |
| | | 1997.. | 501 769 | 207 940 | 134 253 | 159 576 | 441 449 | 183 410 | 131 977 | 126 062 | X | X | X | X |
| 339115 | Ophthalmic goods mfg | 1998.. | 616 041 | 434 721 | 51 011 | 130 309 | 557 053 | 380 723 | 52 697 | 123 633 | 1 | 1 | 1 | 3 |
| | | 1997.. | 560 802 | 384 176 | 51 864 | 124 762 | 554 808 | 378 190 | 70 277 | 106 341 | X | X | X | X |
| 339116 | Dental laboratories | 1998.. | S | S | S | S | S | S | S | S | X | X | X | X |
| | | 1997.. | S | S | S | S | S | S | S | S | X | X | X | X |
| 3399 | Other miscellaneous mfg | 1998.. | 9 262 557 | 4 384 953 | 1 520 537 | 3 357 068 | 8 706 866 | 4 098 575 | 1 539 800 | 3 068 491 | 1 | 2 | 2 | 2 |
| | | 1997.. | 8 796 596 | 4 104 342 | 1 572 362 | 3 119 892 | 8 658 935 | 4 053 260 | 1 510 624 | 3 095 051 | X | X | X | X |
| 33991 | Jewelry & silverware mfg | 1998.. | 1 821 223 | 1 048 564 | 293 308 | 479 350 | 1 786 845 | 1 028 848 | 294 925 | 463 072 | 4 | 4 | 5 | 4 |
| | | 1997.. | 1 824 446 | 1 030 109 | 299 946 | 494 391 | 1 816 197 | 1 007 494 | 285 301 | 523 402 | X | X | X | X |
| 339911 | Jewelry (except costume) mfg | 1998.. | 1 084 214 | 540 170 | 189 453 | 354 590 | 1 154 543 | 602 785 | 207 088 | 344 669 | 6 | 8 | 6 | 5 |
| | | 1997.. | 1 176 048 | 598 861 | 207 469 | 369 718 | 1 166 519 | 591 231 | 200 216 | 375 072 | X | X | X | X |
| 339912 | Silverware & plated ware mfg | 1998.. | 277 450 | 205 422 | 29 523 | 42 505 | 225 153 | 170 500 | 19 562 | 35 091 | 1 | 3 | 18 | 8 |
| | | 1997.. | 225 741 | 164 216 | 24 828 | 36 697 | 208 855 | 144 762 | 26 553 | 37 540 | X | X | X | X |
| 339913 | Jewelers' material & lapidary work mfg | 1998.. | 211 429 | 166 030 | 27 102 | 18 298 | 216 057 | 156 829 | 32 719 | 26 509 | 5 | 4 | 8 | 15 |
| | | 1997.. | 220 994 | 163 327 | 30 154 | 27 513 | 227 747 | 160 402 | 25 501 | 41 844 | X | X | X | X |
| 339914 | Costume jewelry & novelty mfg | 1998.. | 248 130 | 136 943 | 47 230 | 63 957 | 191 091 | 98 734 | 35 556 | 56 802 | 3 | 3 | 7 | 4 |
| | | 1997.. | 201 663 | 103 705 | 37 495 | 60 463 | 213 076 | 111 099 | 33 031 | 68 946 | X | X | X | X |
| 33992 | Sporting & athletic goods mfg | 1998.. | 2 071 257 | 996 968 | 264 298 | 809 992 | 1 848 431 | 915 543 | 257 936 | 674 951 | 4 | 4 | 4 | 5 |
| | | 1997.. | 1 876 202 | 917 833 | 280 443 | 677 966 | 1 877 826 | 940 366 | 263 249 | 674 211 | X | X | X | X |
| 339920 | Sporting & athletic goods mfg | 1998.. | 2 071 257 | 996 968 | 264 298 | 809 992 | 1 848 431 | 915 543 | 257 936 | 674 951 | 4 | 4 | 4 | 5 |
| | | 1997.. | 1 876 202 | 917 833 | 280 443 | 677 966 | 1 877 826 | 940 366 | 263 249 | 674 211 | X | X | X | X |
| 33993 | Doll, toy, & game mfg | 1998.. | 725 171 | 377 380 | 85 314 | 262 476 | 676 231 | 363 888 | 83 381 | 229 013 | 3 | 2 | 8 | 4 |
| | | 1997.. | 683 892 | 370 727 | 82 508 | 230 657 | 687 415 | 360 131 | 86 235 | 241 049 | X | X | X | X |
| 339931 | Doll & stuffed toy mfg | 1998.. | 64 870 | 38 223 | 6 350 | 20 298 | 58 106 | 35 005 | 5 561 | 17 540 | 6 | 5 | 11 | 7 |
| | | 1997.. | 62 603 | 36 726 | 6 016 | 19 861 | 58 203 | 36 679 | 7 491 | 14 033 | X | X | X | X |
| 339932 | Game, toy, & children's vehicle mfg..... | 1998.. | 660 301 | 339 158 | 78 965 | 242 178 | 618 125 | 328 833 | 77 819 | 211 473 | 3 | 3 | 8 | 4 |
| | | 1997.. | 621 289 | 334 001 | 76 492 | 210 796 | 629 212 | 323 452 | 78 744 | 227 016 | X | X | X | X |
| 33994 | Office supplies (except paper) mfg | 1998.. | 790 912 | 391 040 | 129 495 | 270 377 | 705 711 | 341 053 | 127 651 | 237 007 | 2 | 1 | 5 | 4 |
| | | 1997.. | 688 701 | 326 216 | 129 646 | 232 839 | 653 706 | 291 955 | 133 691 | 228 060 | X | X | X | X |
| 339941 | Pen & mechanical pencil mfg | 1998.. | 336 417 | 179 852 | 60 512 | 96 053 | 287 737 | 162 274 | 48 903 | 76 560 | 4 | 2 | 6 | 8 |
| | | 1997.. | 269 961 | 146 906 | 51 799 | 71 256 | 227 728 | 106 516 | 54 696 | 66 516 | X | X | X | X |
| 339942 | Lead pencil & art good mfg | 1998.. | 247 868 | 130 591 | 40 514 | 76 763 | 223 091 | 102 322 | 46 302 | 74 467 | 1 | 1 | 2 | 2 |
| | | 1997.. | 220 114 | 99 592 | 47 524 | 72 998 | 224 400 | 103 411 | 49 652 | 71 337 | X | X | X | X |
| 339943 | Marking device mfg | 1998.. | 77 964 | 33 135 | 8 284 | 36 546 | 76 693 | 33 289 | 8 044 | 35 361 | 1 | 2 | 5 | 1 |
| | | 1997.. | 76 977 | 33 483 | 8 438 | 35 056 | 73 553 | 32 512 | 5 916 | 35 125 | X | X | X | X |
| 339944 | Carbon paper & inked ribbon mfg | 1998.. | 128 662 | 47 462 | 20 186 | 61 015 | 118 189 | 43 169 | 24 402 | 50 618 | 5 | 6 | 27 | 14 |
| | | 1997.. | 121 649 | 46 235 | 21 885 | 53 529 | 128 025 | 49 516 | 23 427 | 55 082 | X | X | X | X |
| 33995 | Sign mfg | 1998.. | 812 356 | 215 671 | 254 533 | 342 153 | 797 295 | 200 007 | 270 088 | 327 200 | 4 | 7 | 6 | 4 |
| | | 1997.. | 787 191 | 187 797 | 267 854 | 331 540 | 780 221 | 190 806 | 254 301 | 335 114 | X | X | X | X |
| 339950 | Sign mfg | 1998.. | 812 356 | 215 671 | 254 533 | 342 153 | 797 295 | 200 007 | 270 088 | 327 200 | 4 | 7 | 6 | 4 |
| | | 1997.. | 787 191 | 187 797 | 267 854 | 331 540 | 780 221 | 190 806 | 254 301 | 335 114 | X | X | X | X |
| 33999 | All other miscellaneous mfg | 1998.. | 3 041 639 | 1 355 330 | 493 589 | 1 192 719 | 2 892 354 | 1 249 285 | 505 802 | 1 137 249 | 2 | 2 | 5 | 2 |
| | | 1997.. | 2 936 164 | 1 271 660 | 511 965 | 1 152 539 | 2 843 570 | 1 262 508 | 487 847 | 1 093 215 | X | X | X | X |
| 339991 | Gasket, packing, & sealing device mfg | 1998.. | 544 637 | 277 754 | 92 775 | 174 109 | 572 603 | 291 851 | 99 829 | 180 923 | 6 | 8 | 8 | 4 |
| | | 1997.. | 582 112 | 294 198 | 104 414 | 183 500 | 579 461 | 300 080 | 102 484 | 176 897 | X | X | X | X |
| 339992 | Musical instrument mfg | 1998.. | 348 613 | 126 339 | 87 358 | 134 915 | 339 697 | 96 103 | 107 205 | 136 389 | 8 | 13 | 28 | 5 |
| | | 1997.. | 338 545 | 98 822 | 106 391 | 136 332 | 324 198 | 101 774 | 103 210 | 119 214 | X | X | X | X |
| 339993 | | | | | | | | | | | | | | |

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of 1998—Con.

[Thousand dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

| NAICS code | Industry group and industry | End of year | | | | Beginning of year | | | | Relative standard error of estimate ¹ (percent) for column— | | | |
|------------|-----------------------------------|--------------------|-------------------|-----------------|----------------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------------------------------------|---|---|---|
| | | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | Total ¹ | Finished products | Work-in-process | Materials, supplies, fuels, etc. | A | B | C | D |
| | | A | B | C | D | E | F | G | H | X | X | 2 | X |
| 339 | Miscellaneous mfg—Con. | | | | | | | | | | | | |
| 3399 | Other miscellaneous mfg—Con. | | | | | | | | | | | | |
| 33999 | All other miscellaneous mfg—Con. | | | | | | | | | | | | |
| 339999 | All other miscellaneous mfg | 1 551 361 | 668 209 | 217 125 | 666 027 | 1 393 782 | 586 432 | 201 608 | 605 742 | 1 | 1 | 2 | 2 |
| | 1998.. | 1 390 797 | 588 241 | 198 979 | 603 577 | 1 354 527 | 584 946 | 188 300 | 581 281 | X | X | X | X |
| | 1997.. | | | | | | | | | | | | |

¹Description of relative standard error of estimate is given in Appendix B. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note: 1997 data may differ from that published in the 1997 Census of Manufactures final industry series because of changes encountered in subsequent 1997 census review or revisions discovered during 1998 Annual Survey of Manufactures review.

Appendix A.

Explanation of Terms

BEGINNING- AND END-OF-YEAR INVENTORIES

Respondents were asked to report their beginning-of-year and end-of-year inventories at cost or market. Effective with the 1982 Economic Census, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). Beginning in 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Inventory Data by Stage of Fabrication

Total inventories and three detailed components (finished goods, work-in-process, and materials, supplies, fuels, etc.) were collected.

When using inventory data by stage of fabrication, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by an establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for all publication levels.

TOTAL CAPITAL EXPENDITURES (NEW AND USED)

For establishments in operation and any known plants under construction, manufacturers were asked to report their new and used expenditures for (1) permanent additions and major alterations to manufacturing establishments and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

Totals for expenditures include the costs of assets leased from nonmanufacturing concerns through capital leases. New facilities owned by the federal government but operated under contract by private companies and plant and equipment furnished to the manufacturer by communities and nonprofit organizations are excluded. Also excluded are expenditures for land and cost of maintenance and repairs charged as current operating expenses.

For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported.

If an establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported.

QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

Data on the quantity of purchased electric energy were collected. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other establishments of the same company.

COST OF MATERIALS

This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

Included in this item are:

1. **Cost of parts, components, containers, etc.** Includes all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year.
2. **Cost of products bought and sold without further processing.**
3. **Cost of fuels consumed for heat and power.** Includes the cost of fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.
4. **Cost of purchased electricity.** The cost of purchased electric energy represents the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

5. **Cost of contract work.** This term applies to work done by others on materials furnished by the manufacturing establishment. The actual cost of the material was reported on the cost of materials, parts, and containers line of this item. The term "Contract Work" refers to the fee a company pays to another company to perform a service.

Duplication in Cost of Materials and Value of Shipments

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the survey.

Duplication of products within individual industries is significant within a number of industry groups; e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the U.S. level and beginning in 1964, for all geographic levels.

VALUE OF SHIPMENTS

This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and sold without further processing. Included are all items made by or for the establishments from materials owned by it, whether sold, transferred to other plants of the same company, or

shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiestablishment companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit.

Duplication in Cost of Materials and Value of Shipments

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills industry products to bakeries in the food group and the addition of pulp mills industry products to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within a number of industry groups; e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs to value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the U.S. level and beginning in 1964, for all geographic levels.

PAYROLL

This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year. Respondents were told they could follow the definition of payrolls used for calculating

the federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of armed forces and pensioners carried on the active payrolls of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' social security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

PRODUCTION-WORKER HOURS

This item covers hours worked or paid for at the manufacturing establishment, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

VALUE ADDED

This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

For those industries where value of production is collected instead of value of shipments, value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

"Value added" avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

EMPLOYEES

This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th

of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production Workers

This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All Other Employees

This item covers nonproduction employees of the manufacturing establishment, including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver-salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations utilized as a separate work force.

FRINGE BENEFITS

Fringe benefits consists of legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees.

TOTAL COMPENSATION

This term refers to the annual payroll or gross earnings paid in each calendar year to employees at the establishment. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers

of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of armed forces and pensioners carried on the active payrolls of manufacturing establishments.

It should be noted that this definition does not include employers' social security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

Appendix B.

Coverage and Methodology

DESCRIPTION OF THE ASM SAMPLE

The ASM sample is selected at 5-year intervals beginning the second survey year subsequent to the census. The current sample was selected from the 1992 census and has been used since 1994. A new sample will be introduced for the 1999-2003 surveys.

In 1997, both the census and ASM converted from the SIC system to NAICS for purposes of assigning industrial classifications to establishments. For the most part, the overall scope of the manufacturing sector is similar under both classification systems; however, there are selected activities that are classified as manufacturing under SIC that are considered as nonmanufacturing under NAICS. The reverse is also true.

For the 1998 survey year, an extensive sample update to address the conversion from SIC to NAICS was not undertaken. Rather, a more limited approach was taken. Establishments in the existing ASM sample were assigned the appropriate NAICS industry code using their 1997 census data. Establishments that were no longer classified as manufacturing were removed from the ASM sample. Establishments that continued to be classified as manufacturing under the NAICS were assigned a NAICS industry code for estimation purposes and remained in the ASM. Finally, the population of establishments in the 1997 census that were newly classified into the manufacturing sector solely due to the conversion to NAICS was identified and a small sample of establishments elected for inclusion in the 1998 ASM.

In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components: a mail stratum and a nonmail stratum.

Mail stratum

The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 census were assigned to the mail stratum.

On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures with manufacturing shipments of at least \$500 million were defined as company certainties. For these large companies, each manufacturing establishment is included in the mail sample. For the 1994-98 sample, there are approximately 650 certainty companies collectively accounting for over 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. In addition, all establishments producing electronic computers were defined as certainties. Across these three arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class and industry, a desired reliability constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and

industry shipments. The high correlation between shipments and employment, value added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

Nonmail Component

The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the IRS and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum.

For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions which safeguard the confidentiality of both tax and census records.

DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1992 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base has been updated to the 1997 Economic Census - Manufacturing.

Because of the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail

stratum contains approximately 170,000 individual establishments in 1994, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

QUALIFICATIONS OF THE ASM DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples). The complete-coverage value would be included in the range:

From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent; that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's

review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

